

**Attachment IV  
-TMDL Requirements**

Attachment IVa identifies TMDLs adopted by the Regional Water Boards and approved by USEPA for which the Department has been assigned a Waste Load Allocation (WLA), where roads in general have been assigned a WLA or Load Allocation (LA), or which identifies the Department as a responsible party in the implementation plan. Attachment IVb identifies the TMDLs established by USEPA. These TMDLs are established without implementation plans or compliance schedules. This summary is compiled for the convenience of the Department only<sup>1</sup>. The Department is obligated to consult each TMDL to comply with all applicable allocations and other provisions, whether included in the table or not. Compliance with all TMDLs must be demonstrated to the satisfaction of the applicable Regional Water Board.

Column 1 identifies applicable Regional Water Board Basin Plan Amendments, orders and resolutions which contain the implementation requirements.

Column 2 contains a ~~partial~~ list of WLAs, LAs, deliverables and action items contained in the Basin Plan Amendments, orders and resolutions, and from required submittals by the Department to the Regional Water Boards that have previously been approved by the Executive Officers. WLAs are listed in Attachment 4 where the relevant TMDL assigns a specific numeric load to the Department.

Column 3 contains the associated due dates, compliance dates, and deadlines. All TMDL-related requirements with due dates, compliance dates, and deadlines prior to the effective date of this Order are enforceable through this Order as though the date or deadline is the same as the effective date of this Order. Dates beyond the term of this Order are included for reference, but will become enforceable through this Order in the event that this Order is administratively extended.

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<sup>1</sup> This Attachment IV contains new specific permit requirements derived from San Francisco Bay Regional Water Board TMDLs for San Francisco Bay PCBs, San Francisco Bay Mercury, Sonoma Creek Sediment, and Napa River Sediment. Unlike the remainder of Attachment IV, these requirements are directly enforceable through this Order.

**Attachment IVa – Regional Water Board Approved TMDLs**

**R1- North Coast Regional Water Board**

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
<p><b>ShastaGarcia River</b> <del>Dissolved Oxygen &amp; Temperature</del></p> <p><u>Sediment</u></p> <p>Effective Date: <del>January 26, 2007</del><u>March 7, 2002</u></p> <p>BPA: <u>September 21, 2000</u> Action Plan for the <b>ShastaGarcia River Watershed Temperature and Dissolved Oxygen – June 28, 2006</b><u>Sediment TMDL</u></p> <p>Resolution No. <del>R1-2006-0052</del></p>	<p><b>WLA</b> <del>Temperature:–None Specified</del></p> <p><del>Dissolved-Oxygen:–None Specified.</del></p> <p><b>Other</b> <del>Complete Lake Shastina Special Study:– develop plan for addressing factors affecting water quality conditions.</del></p> <p><del>Implement the requirement of the Department Storm Water Program.</del></p> <p><del>Implement Lake Shastina Special Study Plan</del></p> <p><u>Sediment Load Allocation: Zero controllable discharges.</u></p> <p><u>Comply with sediment waste discharge prohibitions, comply with an approved Erosion Control Plan and an approved Site-Specific Management Plan, or comply with an approved Erosion Control Plan and the Garcia River Management Plan</u></p>	<p>None Specified</p> <p><del>None Specified</del></p> <p><del>January 26, 2009</del></p> <p><del>January 26, 2009</del></p> <p><del>January 26, 2012</del></p> <p><u>March 7, 2002</u></p> <p><u>March 7, 2002</u></p>
<p><b>Klamath River &amp; Lost River</b> <i>Temperature, Dissolved Oxygen, Nutrient, and Microcystin</i></p> <p>Effective Date: <u>Klamath River -</u> December 28, 2010</p> <p>BPA: Action Plan for Klamath River TMDLs Addressing Temperature, Dissolved Oxygen, Nutrient, and Microcystin Impairments in the Klamath River in California <b>and Lost River Implementation</b> Plan.</p> <p>Resolution No. R-2010-0026</p>	<p><b>WLA</b> <b>Temperature:</b> None Specified</p> <p><b>Dissolved Oxygen:</b> None Specified</p> <p><b>Nutrient:</b> None Specified</p> <p><u>Microcystin: None Specified</u></p> <p><b>Other</b></p> <p><u><b>Nutrient and Organic Matter:</b></u> <u>Daily total phosphorus load allocations, daily total nitrogen load allocations, and daily carbonaceous biochemical oxygen demand allocations are expressed by source area in Table 4-16 of the Water Quality Control Plan for the North Coast Region.</u></p> <p><u><b>Dissolved Inorganic Nitrogen:</b></u> <u>Reach 1: 0.1 metric tons/yr or 0.3 average kg/day.</u> <u>Reach 2: 0.2 metric tons/yr or 0.5 average kg/day.</u> <u>Reach 3: 0.2 metric tons/yr or 0.5 average kg/day</u></p> <p><del>Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation:</del> <u>Inventory, prioritize, schedule, implement, monitor and adapt</u> steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region.</p> <p>Assessment of fish migration barriers and potential barriers. Develop priority ranking and time schedule for modifying barriers.</p>	<p>None Specified</p> <p>None Specified</p> <p>None Specified</p> <p><u>None Specified</u></p> <p><u>December 28, 2010</u></p> <p><u>December 28, 2010</u></p> <p>Annual Report</p> <p>Annual Report</p>

REVISED – August 18, 2011

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
<p><b>Scott River</b> <u>Sediment and Temperature</u></p> <p>Effective Date: August 11, 2006</p> <p>BPA: <u>Action Plan for the Scott River Sediment and Temperature Total Maximum Daily Loads</u></p> <p>Resolution Nos. <del>R1-2004-0087</del> and R1-2005-0013</p>	<p><b>WLA</b> <u>Sediment</u>: None specified <u>Temperature</u>: None specified</p> <p><b>Other</b> <u>Sediment Load Allocations</u>: Load allocations for road surface erosion, road-related stream crossing failures, road-related gullies, road-related cut/fill failures, and road-related landslides are expressed as averages over the entire Scott River watershed and are to be evaluated on a ten-year, rolling-average basis as listed in Table 4-8 of the <u>Water Quality Control Plan for the North Coast Region</u>.</p> <p><u>Temperature Load Allocations</u>: Adjusted potential effective shade conditions as expressed in Figure 4-5 of the <u>Water Quality Control Plan for the North Coast Region</u>.</p> <p>Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region.</p>	<p>None specified</p> <p><u>None specified</u></p> <p><u>September 8, 2006</u></p> <p><u>September 8, 2006</u></p> <p>Annual Report</p>
<p><b>Shasta River Watershed</b> <u>Dissolved Oxygen &amp; Temperature</u></p> <p>Effective Date: January 26, 2007</p> <p>BPA: <u>Action Plan for the Shasta River Watershed Temperature and Dissolved Oxygen – June 28, 2006</u></p> <p>Resolution No. R1-2006-0052</p>	<p><b>WLA</b> <u>Temperature</u>: There are no point source heat loads in the Shasta River Watershed, therefore no WLAs apply.</p> <p><u>Dissolved Oxygen</u>: There are no known point sources of oxygen-demanding constituents to the Shasta River and tributaries.</p> <p><b>Other:</b> <u>Temperature Load Allocation</u>: Landowners and operators in the mainstream Shasta River below Dwinnell Dam are allocated loads equal to potential solar radiation transmittance, as tabulated in Table 4-11 and Figure 4-6 of the <u>Water Quality Control Plan for the North Coast Region</u>. Landowners and operators on the Shasta River above Dwinnell Dam and on tributaries are allocated loads equal to adjusted potential effective shade, which is equal to 90% of site potential shade.</p> <p><u>Dissolve Oxygen Load Allocation</u>: As assigned to landowners whose operations contribute to water quality conditions within the specified reaches of the Shasta River, the load allocations are assigned to reaches of the Shasta River as identified in Table 4-13 of the <u>Water Quality Control Plan for the North Coast Region</u>.</p> <p><u>Complete Lake Shastina Special Study</u>: Develop plan for addressing factors affecting water quality conditions.</p> <p><u>Implement the requirement of the Department Storm Water Program.</u></p> <p><u>Implement Lake Shastina Special Study Plan.</u></p>	<p><u>None</u></p> <p><u>None Specified</u></p> <p><u>January 26, 2007</u></p> <p><u>January 26, 2007</u></p> <p><u>January 26, 2009</u></p> <p><u>January 26, 2009</u></p> <p><u>January 26, 2012</u></p>

**R2 – San Francisco Bay Regional Water Board**

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
<p><b>San Francisco Bay PCBs</b></p> <p>Effective Date: March 29, 2010</p> <p>BPA Exhibit A – TMDL &amp; Implementation Plan for PCBs</p> <p>Resolution Nos. R1-2008-0012</p>	<p><b>WLA</b> <b>San Francisco Bay PCBs TMDL Waste load Allocation</b> None Specified</p> <p><b>San Francisco Bay Mercury TMDL Wasteload Allocation</b> None Specified</p> <p><b>Monitoring</b> Independently or in cooperation with urban runoff management agencies develop and implement a monitoring program to quantify PCBs and mercury loads and loads reduced through source control, treatment and other management measures.</p> <p>Report on the methods used to assess progress toward meeting WLAs including description of the measurement and estimation methodology and rationale used for the approaches.</p>	<p><a href="#">To be Determined</a> <del>Year 2 Annual Report</del></p> <p><del>None Specified</del></p> <p><del>None Specified</del></p> <p><del>None Specified</del></p>
<p><b>San Francisco Bay Mercury</b></p> <p>Effective Date: February 12, 2008</p> <p>BPA – Chapter 7, SF Bay Mercury TMDL</p> <p>Resolution No. R2-2006-0052</p>	<p>Report results of the chosen monitoring approach concerning loads assessment and estimation of loads reduced.</p> <p><b>Pilot Projects to Investigate and Abate Locations with Elevated PCBs and Mercury Concentrations, Including Public Rights-of-Way and Stormwater Conveyances with Accumulated Sediments with Elevated PCBs and Mercury Concentrations</b></p> <p>Investigate and abate PCBs and mercury sources in or to storm drain systems in conjunction with the Water Board and other appropriate regulatory agencies.</p> <p>Identify at least two drainage areas that contain high levels of PCBs and conduct pilot projects to investigate and abate these high PCBs/mercury concentrations. Conduct reconnaissance in the pilot project drainage areas, test sediments in storm drains and conveyances, and characterize the extent and magnitude of PCBs/mercury concentrations. Evaluate data and determine if a PCBs/mercury abatement program would reduce PCBs/mercury loading significantly.</p> <p>Report on the identified suspect drainage areas.</p> <p>Report on sampling and chemical analysis results at pilot project locations.</p> <p>Report on proposed abatement opportunities/activities, responsible parties, funding agency oversight, and schedules.</p> <p>Report results of the abatement program's effectiveness and provide estimates of loads of PCBs and mercury reduced, and submit a plan and schedule for possible expanded implementation in subsequent permit terms.</p> <p><b>Conduct Pilot Projects to Evaluate and Enhance PCBs/Mercury Sediment Removal and Management Practices</b></p> <p>Evaluate in at least two drainages pilot projects to enhance PCBs/mercury load reduction benefits of enhanced operation and maintenance activities that remove or manage sediment (e.g., street sweeping, inlet cleaning, catch basin cleaning, storm water conveyance system maintenance, and pump station cleaning). Include consideration of street flushing and capture, collection, or routing to the sanitary sewer (in coordination and consultation with local sanitary sewer agencies) as a potential enhanced management. Reducing loads of PCBs is the main site selection factor, and reducing loads of mercury is a secondary criterion.</p> <p>Quantify and report on the amount of PCBs/mercury loads removed or avoided from implementation of selected measures and document this knowledge and experience</p>	<p><a href="#">To be Determined</a></p> <p><a href="#">See Below</a></p> <p><a href="#">See Below</a></p> <p>Year 2 Annual Report</p> <p>Year 4 Annual Report</p> <p><del>None Specified</del></p> <p><del>None Specified</del></p> <p><a href="#">See Below</a></p> <p><a href="#">See Below</a></p>

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
	<p>gained.</p> <p>Report selected sites, operation and maintenance activities to be evaluated, and pilot project implementation schedule.</p> <p>Report status of the pilot projects.</p> <p>Report on the effectiveness of enhanced implementation practices, estimates of loads reduced, and submit a plan and schedule for possible expanded implementation in subsequent permit terms.</p> <p><b>Conduct Pilot Projects to Evaluate On-Site Stormwater Treatment via Retrofit</b></p> <p>Evaluate and quantify the removal of PCBs and mercury by on-site treatment systems via retrofit into existing storm drain systems at a minimum of three locations. Reducing loads of PCBs is the main site selection factor, and reducing loads of mercury is a secondary criterion.</p> <p>Quantify and report on the amount of PCBs/mercury loads removed or avoided from implementation of selected measures and document this knowledge and experience gained.</p> <p>Report selected sites, operation and maintenance activities to be evaluated, and pilot project implementation schedule.</p> <p>Report status of the pilot projects.</p> <p>Report on the effectiveness of enhanced implementation practices, estimates of loads reduced, and submit a plan and schedule for possible expanded implementation in subsequent permit terms.</p> <p><b>Conduct Pilot Project to evaluate Diversion of Dry Weather and First Flush Flows to POTWs</b></p> <p>Evaluate the reduced loads of PCBs/mercury from diversion of dry weather and first flush storm water flows to sanitary sewers via implementing one pilot project. Reducing loads of PCBs is the main site selection factor, and reducing loads of mercury is a secondary criterion.</p> <p>Quantify and report the amount of PCBs/mercury loads removed or avoided and document this knowledge and experience gained.</p> <p>Report location of diversion project and schedule for implementation.</p> <p>Report status of the pilot project.</p> <p>Report on the pilot project effectiveness and PCBs and mercury loads reduced, and submit a plan and schedule for possible expanded implementation in subsequent permit terms.</p> <p><b>Specific Provision for San Francisco Bay Mercury TMDL – Develop Wasteload Allocation Sharing Scheme</b></p> <p>Develop equitable mercury WLA sharing scheme in consultation with SF Bay Area urban runoff management agencies to address roadway and non-roadway facilities' contribution of mercury loadings within the jurisdiction of each agency and report the details to the Regional Water Board. Alternatively, implement mercury load reduction actions on a watershed or region-wide basis in lieu of sharing a portion of an urban runoff management agencies' mercury WLA.</p>	<p>Year 1 Annual Report</p> <p>Year 2 Annual Report</p> <p>Year 3 Annual Report</p> <p>Year 4 Annual Report</p> <p><del>None Specified</del></p> <p><del>None Specified</del></p> <p><a href="#">See Below</a></p> <p><a href="#">See Below</a></p> <p>Year 1 Annual Report</p> <p>Year 2 and 3 Annual Reports</p> <p>Year 4 Annual Report</p> <p><del>None Specified</del></p> <p><del>None Specified</del></p>

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
	<p>Report status of efforts to develop WLA sharing scheme.</p> <p>Report the manner in which the mercury WLA will be shared with urban runoff management agencies or submit request for a separate mercury WLA.</p>	<p><a href="#">See Below</a></p> <p><a href="#">See Below</a></p> <p>Year 2 -Annual Report</p> <p>Year 3 Annual Report</p> <p><del>Year4 Annual Report</del></p> <p><del>None Specified</del></p> <p><del>None Specified</del></p> <p><del>Year 2 Annual Report</del></p> <p><del>Year 3 Annual Report</del></p> <p>Year 4 Annual Report</p> <p><del>None Specified</del></p> <p><a href="#">See Below</a></p> <p><a href="#">See Below</a></p> <p><a href="#">Year 2 Annual Report</a></p> <p><a href="#">Year 3 Annual Report</a></p>

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
		<a href="#">Year 4 Annual Report</a>  <a href="#">See Below</a>  Year 1 and 2 -Annual Reports  Year 3 -Annual Report

<p><b>Sonoma Creek Sediment</b></p> <p>Effective Date: September 8, 2010</p> <p>BPA: Exhibit A. Sediment &amp; Implementation Plan – December 12, 2008-</p> <p>Resolution No. R2-2008-0103 <a href="#">and Resolution No. 2010-0016</a></p> <p><b>Napa River Sediment</b></p> <p>Effective Date: <del>Pending</del> <a href="#">January 20, 2011</a></p> <p>BPA: Chapter 7, Water Quality Attainment Strategies including TMDLs</p> <p>Resolution No. R2-2009-0064</p>	<p><u><a href="#">Sonoma Creek WLA</a></u></p> <p><b>Sonoma Creek Sediment Wasteload Allocation</b></p> <table border="1" data-bbox="331 886 1097 1121"> <thead> <tr> <th rowspan="2">Current (2005) Load<sup>b</sup></th> <th rowspan="2">Estimated Reductions Needed (Percentage)</th> <th colspan="2">Waste Load Allocation</th> </tr> <tr> <th>Tons/year<sup>a</sup></th> <th>Percent Natural Background</th> </tr> </thead> <tbody> <tr> <td align="center">100</td> <td align="center">0</td> <td align="center">100</td> <td align="center">0.2</td> </tr> </tbody> </table> <p><sup>a</sup> Sediment loads and allocations are rounded to the nearest hundred.  <sup>b</sup> Total current (2005) estimated sediment load = 117,400 tons/yr</p> <p><u><a href="#">Other</a></u></p> <table border="1" data-bbox="331 1264 1263 1885"> <thead> <tr> <th><u><a href="#">Performance Standards</a></u></th> <th><u><a href="#">Actions</a></u></th> </tr> </thead> <tbody> <tr> <td><u><a href="#">Roads: Design, construct, and maintain rural roads to minimize road- related sediment delivery to stream channels ; and</a></u></td> <td><u><a href="#">Submit a Report of Waste Discharge<sup>2</sup> to the Regional Water Board that provides, at a minimum, the following: description of the road network and/or segments; identification of erosion and sediment control measures to achieve performance standard(s) specified in this table; and a schedule for implementation of identified and sediment control actions that could primarily focus on road crossings to meet the performance standard.</a></u></td> </tr> <tr> <td><u><a href="#">Gullies and/or shallow landslides: Promote natural recovery and minimize human-caused increases in sediment delivery from unstable areas.</a></u></td> <td><u><a href="#">Adopt and implement BMPs for maintenance of unimproved (dirt/gravel) roads, and conduct a survey of stream-crossings associate with paved public roadways, and develop a prioritized implementation plan for repair and/or replacement of high priority crossings/culverts to reduce road-related erosion and protect stream-riparian habitat conditions.</a></u></td> </tr> </tbody> </table>	Current (2005) Load <sup>b</sup>	Estimated Reductions Needed (Percentage)	Waste Load Allocation		Tons/year <sup>a</sup>	Percent Natural Background	100	0	100	0.2	<u><a href="#">Performance Standards</a></u>	<u><a href="#">Actions</a></u>	<u><a href="#">Roads: Design, construct, and maintain rural roads to minimize road- related sediment delivery to stream channels ; and</a></u>	<u><a href="#">Submit a Report of Waste Discharge<sup>2</sup> to the Regional Water Board that provides, at a minimum, the following: description of the road network and/or segments; identification of erosion and sediment control measures to achieve performance standard(s) specified in this table; and a schedule for implementation of identified and sediment control actions that could primarily focus on road crossings to meet the performance standard.</a></u>	<u><a href="#">Gullies and/or shallow landslides: Promote natural recovery and minimize human-caused increases in sediment delivery from unstable areas.</a></u>	<u><a href="#">Adopt and implement BMPs for maintenance of unimproved (dirt/gravel) roads, and conduct a survey of stream-crossings associate with paved public roadways, and develop a prioritized implementation plan for repair and/or replacement of high priority crossings/culverts to reduce road-related erosion and protect stream-riparian habitat conditions.</a></u>	<p><del>None specified</del> <a href="#">June 2014</a></p> <p><del>None specified</del></p> <p><a href="#">June 2014</a></p> <p><del>None-Specified</del></p> <p><del>Year 1 Annual Report</del>  <del>Year 2 Annual Report</del>  <del>Year 3 Annual Report</del></p>
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	<p><u><a href="#">Napa River Watershed WLA</a></u></p> <p><b>Napa River Sediment TMDL Wasteload Allocation</b></p> <table border="1" data-bbox="331 302 1214 506"> <thead> <tr> <th colspan="2">Current Load</th> <th rowspan="2">Reductions Needed (Percentage)</th> <th colspan="2">Waste Load Allocation</th> </tr> <tr> <th>Metric Tons/year</th> <th>Percentage of Natural Background</th> <th>Metric tons/year</th> <th>Percentage of Natural Background</th> </tr> </thead> <tbody> <tr> <td align="center">600</td> <td align="center">0.4</td> <td align="center">0</td> <td align="center">600</td> <td align="center">0.4</td> </tr> </tbody> </table> <p><b>Other</b></p> <p><del>Determine opportunities for retrofit and/or reconstruction of road crossings to minimize road-related sediment delivery to stream channels (≤ 500 cubic yards/mile per 20-year period in the Napa River system). Conduct a survey of stream crossings associated with Department roadways and develop a prioritized implementation plan and schedule for repair and/or replacement of high priority crossings/culverts.</del></p> <p><del>Submit plan and schedule for conducting stream crossings surveys.</del></p> <p><del>Report progress on stream crossings survey.</del></p> <p><del>Report results of stream crossings survey. Submit implementation plan and schedule for repair and/or replacement of high priority crossings/culverts.</del></p> <table border="1" data-bbox="331 1035 1214 1738"> <thead> <tr> <th><u>Performance Standards</u></th> <th><u>Actions</u></th> </tr> </thead> <tbody> <tr> <td><u>Roads: Road related sediment delivery to channels ≤ 500 cubic yards per mile per 20-year period<sup>2a</sup></u></td> <td><u>Submit a Report of Waste Discharge<sup>2</sup> to the Regional Water Board that provides, at a minimum, the following: description of the road network and/or segments; identification of erosion and sediment control measures to achieve performance standard(s) specified in this table; and a schedule for implementation of identified and sediment control actions that could primarily focus on road crossings to meet the performance standard.</u></td> </tr> <tr> <td><u>Gullies and/or shallow landslides: Accelerate natural recovery and prevent human-caused increases in sediment delivery from unstable areas.</u></td> <td><u>Adopt and implement BMPs for maintenance of unimproved (dirt/gravel) roads, and conduct a survey of stream-crossings associated with paved public roadways, and develop a prioritized implementation plan for repair and/or replacement of high priority crossings/culverts to reduce road-related erosion and protect stream-riparian habitat conditions.</u></td> </tr> </tbody> </table>	Current Load		Reductions Needed (Percentage)	Waste Load Allocation		Metric Tons/year	Percentage of Natural Background	Metric tons/year	Percentage of Natural Background	600	0.4	0	600	0.4	<u>Performance Standards</u>	<u>Actions</u>	<u>Roads: Road related sediment delivery to channels ≤ 500 cubic yards per mile per 20-year period<sup>2a</sup></u>	<u>Submit a Report of Waste Discharge<sup>2</sup> to the Regional Water Board that provides, at a minimum, the following: description of the road network and/or segments; identification of erosion and sediment control measures to achieve performance standard(s) specified in this table; and a schedule for implementation of identified and sediment control actions that could primarily focus on road crossings to meet the performance standard.</u>	<u>Gullies and/or shallow landslides: Accelerate natural recovery and prevent human-caused increases in sediment delivery from unstable areas.</u>	<u>Adopt and implement BMPs for maintenance of unimproved (dirt/gravel) roads, and conduct a survey of stream-crossings associated with paved public roadways, and develop a prioritized implementation plan for repair and/or replacement of high priority crossings/culverts to reduce road-related erosion and protect stream-riparian habitat conditions.</u>	<p align="center"><u>October 2014</u></p>
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<p><b>Urban Creek</b> Diazinon &amp; Pesticide Toxicity</p> <p>Effective Date:</p>	<p><b>WLA</b></p> <p>Diazinon: 100 ng/l -(acute and chronic diazinon-related toxicity).</p> <p>Toxicity: 1.0 TUa (acute toxicity units) and 1.0 TUc (chronic toxicity units).</p>	<p align="center">May 16, 2008</p> <p align="center">May 16, 2008</p>																				

REVISED – August 18, 2011

<b>TMDL</b>	<b>WLAs/Deliverables/Action Required</b>	<b>Compliance Date Due Date</b>
May 16, <del>2008</del> <u>2007</u>  BPA: BPA – Chapter 3, Toxicity  Resolution No. R2-2005-0063	<b><i>Other</i></b> Implement a Pesticide-Related Toxicity Control Program.  Submit Pesticide-Related Toxicity Control Program plan.	None Specified  Year 2 Annual Report

REVISED – August 18, 2011  
**R3 - Central Coast Regional Water Board**

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
<p><b>San Lorenzo River (includes Carbonera Lompico, and Shingle Mill Creeks)</b>  <i>Sediment</i></p> <p>Effective Date:            February 19, 2004</p> <p>BPA: Attachment TMDL &amp; Implementation Plan for Sediment</p> <p>Resolution No.            R3-2002-0063</p>	<p><b>WLA</b>            None Specified.</p> <p><b>Other</b>            Create a public road database to inventory and prioritize sediment problems.  <del>Develop a</del> <u>Improve public roads</u> spoils <u>management</u> disposal site <del>or sites(s)</del> in or near the San Lorenzo River Watershed.</p> <p>Submit progress report.</p>	<p>None Specified</p> <p>None Specified</p> <p>None Specified</p> <p>Every third year during implementation phase (i.e., beginning 2007)</p>
<p><b>Morro Bay (includes Chorro Creek, Los Osos Creek, and the Morro Bay Estuary)</b>  <i>Sediment</i></p> <p>Effective Date:            January 20, 2004</p> <p>BPA: BPA – Attachment A, R3-2003-0061 on May 16, 2003</p> <p>Resolution No.            R3-2003-0062</p>	<p><b>WLA</b>            None Specified.</p> <p><b>Other</b>            Increase the use of sediment management measures for road maintenance and construction.</p> <p>Track implementation of best management practices for sediment control on roads.</p> <p>Water Board receives <del>tracking report</del> <u>Implementation Tracking Report</u> from implementing parties.</p>	<p>None Specified</p> <p>On-going</p> <p>On-going</p> <p><u>End of 2007 and</u>            Every third year <u>thereafter</u> during implementation phase <del>(i.e., beginning 2007)</del></p>
<p><b>Santa Maria River Watershed</b>  <i>Pesticides</i></p> <p>Effective Date:            Pending  <del>(anticipated approval 2011)</del></p> <p>BPA: Pending</p> <p>Resolution No.            Pending</p>	<p><b>WLA</b>            None Specified.</p> <p><b>Other</b>            Develop <del>Pesticide Wasteload Allocation Attainment and Monitoring Program</del>.            Implement Pesticide Wasteload Allocation Attainment and Monitoring Program.</p>	<p>None Specified</p> <p>Six months following TMDL approval</p> <p>One-year following TMDL approval</p>

REVISED – August 18, 2011  
**R4 – Los Angeles Regional Water Board**

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date																																																																																																		
<p><b>Ballona Creek Trash</b></p> <p>Effective Date: August 1, 2002 &amp; February 8, 2005</p> <p>BPA: Attachment A, Chapter 7-3.</p> <p>Resolution No. 2004-0023</p>	<p><b>WLA</b></p> <p><u>Ballona Creek Trash WLA (ft<sup>3</sup>)</u></p> <p><del>818</del>  <del>654</del>  <del>491</del>  <del>327</del>  <del>164</del>  <del>0</del>  <del>0</del></p> <p><u>Final TMDL Implementation Schedule (Default WLAs is set at zero expressed as cubic feet of uncompressed trash and % reduction)</u></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="4">WLAs</th> <th colspan="4">Compliance Points</th> </tr> <tr> <th>% Baseline</th> <th>Cubic Ft</th> <th>Gals</th> <th>Lbs.</th> <th>% Baseline</th> <th>Cubic Ft</th> <th>Gals</th> <th>Lbs</th> </tr> </thead> <tbody> <tr> <td>Initial WLA</td> <td>100%</td> <td>1,634</td> <td>12,222</td> <td>13,368</td> <td>100%</td> <td>1,634</td> <td>12,222</td> <td>13,688</td> </tr> <tr> <td>7</td> <td>50%</td> <td>818</td> <td>6,119</td> <td>6,844</td> <td>60%</td> <td>981</td> <td>7,338</td> <td>8,213</td> </tr> <tr> <td>8</td> <td>40%</td> <td>654</td> <td>4,892</td> <td>5,475.2</td> <td>50%</td> <td>818</td> <td>6,119</td> <td>6,844</td> </tr> <tr> <td>9</td> <td>30%</td> <td>491</td> <td>3,673</td> <td>4,106.4</td> <td>40%</td> <td>654</td> <td>4,892</td> <td>5,475</td> </tr> <tr> <td>10</td> <td>20%</td> <td>327</td> <td>2,446</td> <td>2,737.6</td> <td>30%</td> <td>491</td> <td>3,673</td> <td>4,106</td> </tr> <tr> <td>11</td> <td>10%</td> <td>164</td> <td>1,227</td> <td>1,368.8</td> <td>20%</td> <td>327</td> <td>2,446</td> <td>2,736</td> </tr> <tr> <td>12</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>10%</td> <td>164</td> <td>1,227</td> <td>1,568</td> </tr> <tr> <td>13</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>3.3%</td> <td>54</td> <td>404</td> <td>452</td> </tr> <tr> <td>14</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0%</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table> <p><b>Other</b></p> <p><del>Develop a Trash Monitoring and Reporting Plan (TMRP)</del></p> <p>Clean out and measurement of trash retained after rain event.</p> <p>Clean out and measurement of trash retained during dry weather.</p>	Year	WLAs				Compliance Points				% Baseline	Cubic Ft	Gals	Lbs.	% Baseline	Cubic Ft	Gals	Lbs	Initial WLA	100%	1,634	12,222	13,368	100%	1,634	12,222	13,688	7	50%	818	6,119	6,844	60%	981	7,338	8,213	8	40%	654	4,892	5,475.2	50%	818	6,119	6,844	9	30%	491	3,673	4,106.4	40%	654	4,892	5,475	10	20%	327	2,446	2,737.6	30%	491	3,673	4,106	11	10%	164	1,227	1,368.8	20%	327	2,446	2,736	12	0	0	0	0	10%	164	1,227	1,568	13	0	0	0	0	3.3%	54	404	452	14	0	0	0	0	0%	0	0	0	<p>September 30, 2008</p> <p>September 30, 2009</p> <p>September 30, 2010</p> <p>September 30, 2011</p> <p>September 30, 2012</p> <p>September 30, 2013</p> <p>September 30, 2014</p> <p>September 30, 2015</p> <p><b>August 27, 2008</b></p> <p>72 hours after each rain event.</p> <p>Every 3 months</p>
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<p><b>Revolon Slough and Beardsley Wash Trash</b></p> <p>Effective Date: February 27, 2008</p> <p>BPA: Attachment A, Chapter 7-24</p> <p>Resolution No. R4-2007-007</p>	<p><b>WLA</b></p> <p><del>Final WLA is set at zero</del> <u>Revolon Slough and Beardsley Wash Trash WLAs</u></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>% WLA</th> <th>gal/mi<sup>2</sup>/yr</th> </tr> </thead> <tbody> <tr> <td>Initial WLA</td> <td>6,674</td> </tr> <tr> <td>80%</td> <td>5,340</td> </tr> <tr> <td>60%</td> <td>4,005</td> </tr> <tr> <td>40%</td> <td>2,670</td> </tr> <tr> <td>20%</td> <td>1,335</td> </tr> <tr> <td>0%</td> <td>0</td> </tr> </tbody> </table> <p><b>Other</b></p> <p>Trash Monitoring and Reporting Plan (TMRP).</p>	% WLA	gal/mi <sup>2</sup> /yr	Initial WLA	6,674	80%	5,340	60%	4,005	40%	2,670	20%	1,335	0%	0	<p><u>March 6, 2008</u></p> <p><u>February 27, 2012</u></p> <p><u>February 27, 2013</u></p> <p><u>February 27, 2014</u></p> <p><u>February 27, 2015</u></p> <p>February 27, 2016</p> <p>August 27, 2008</p>																																																																																				
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<p><b>Ventura River Estuary</b> <i>Trash</i></p> <p>Effective Date: February 27, 2008</p> <p>BPA: Attachment A, Chapter 7-25</p> <p>Resolution No. R4-2007-008</p>	<p><b>WLA</b> <del>Final WLA is set at zero</del></p> <table border="1" data-bbox="690 1056 1286 1297"> <thead> <tr> <th><u>%WLA</u></th> <th><u>gal/mi2/yr</u></th> </tr> </thead> <tbody> <tr> <td><u>Initial WLA</u></td> <td><u>6.674</u></td> </tr> <tr> <td><u>80%</u></td> <td><u>5.340</u></td> </tr> <tr> <td><u>60%</u></td> <td><u>4.005</u></td> </tr> <tr> <td><u>40%</u></td> <td><u>2.670</u></td> </tr> <tr> <td><u>20%</u></td> <td><u>1.335</u></td> </tr> <tr> <td><u>0%</u></td> <td><u>0</u></td> </tr> </tbody> </table> <p><b>Other</b> Trash Monitoring and Reporting Plan (TMRP).</p> <p>Implement Trash Monitoring Reporting Plan.</p> <p>Submit results of TMRP, recommend trash baseline WLA, and propose prioritization of Full Capture System installation or implementation of other trash reduction measures.</p> <p><del>Notice of Intent to Comply with Conditional WDR, including Minimum Frequency of Assessment and Collection (MFAC)/BMP Program TMRP</del></p> <p><del>Implement MFAC/BMP Program</del></p>	<u>%WLA</u>	<u>gal/mi2/yr</u>	<u>Initial WLA</u>	<u>6.674</u>	<u>80%</u>	<u>5.340</u>	<u>60%</u>	<u>4.005</u>	<u>40%</u>	<u>2.670</u>	<u>20%</u>	<u>1.335</u>	<u>0%</u>	<u>0</u>	<p><del><a href="#">March 6, 2008</a></del></p> <p><del><a href="#">February 27, 2012</a></del></p> <p><del><a href="#">February 27, 2013</a></del></p> <p><del><a href="#">February 27, 2014</a></del></p> <p><del><a href="#">February 27, 2015</a></del></p> <p><del>February 27, 2016</del></p> <p><del>August 27, 2008</del></p> <p><del>Six months from receipt of Notice of Acceptance from RB Executive Officer.</del></p> <p><del>Two years from receipt of Regional Board letter of approval for TMRP</del></p> <p><del>August 27</del><del><a href="#">July 28, 2008</a></del></p> <p><del><a href="#">January 28, 2011</a></del> <del>and annually thereafter</del> <del>Six months from receipt of Notice</del></p>
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<p><b>Machado Lake</b> <i>Trash</i></p> <p>Effective Date: February 27, 2008</p> <p>BPA: Attachment A, <del>Chapter 7-26</del></p> <p>Resolution No. R4-2007-06</p>	<p><b>WLA</b> <del>Final WLA is set at zero</del></p> <table border="1"> <thead> <tr> <th><u>%WLA</u></th> <th><u>gal/mi2/yr</u></th> </tr> </thead> <tbody> <tr> <td><u>Initial WLA</u></td> <td><u>6.674</u></td> </tr> <tr> <td><u>80%</u></td> <td><u>5.340</u></td> </tr> <tr> <td><u>60%</u></td> <td><u>4.005</u></td> </tr> <tr> <td><u>40%</u></td> <td><u>2.670</u></td> </tr> <tr> <td><u>20%</u></td> <td><u>1.335</u></td> </tr> <tr> <td><u>0%</u></td> <td><u>0</u></td> </tr> </tbody> </table> <p><b>Other</b> Trash Monitoring and Reporting Plan (TMRP).</p> <p>Implement Trash Monitoring Reporting Plan.</p> <p>Submit results of TMRP, recommend trash baseline WLA, and propose prioritization of Full Capture System installation or implementation of other trash reduction measures.</p>	<u>%WLA</u>	<u>gal/mi2/yr</u>	<u>Initial WLA</u>	<u>6.674</u>	<u>80%</u>	<u>5.340</u>	<u>60%</u>	<u>4.005</u>	<u>40%</u>	<u>2.670</u>	<u>20%</u>	<u>1.335</u>	<u>0%</u>	<u>0</u>	<p><del>September 30</del></p> <p><del>March 6, 2008</del></p> <p><del>February 27, 2012</del></p> <p><del>February 27, 2013</del></p> <p><del>February 27, 2014</del></p> <p><del>February 27, 2015</del></p> <p><del>February 27, 2016</del></p> <p><del>August 27, 2008</del></p> <p><del>August 27, 2008</del></p> <p><del>Two years from receipt of Regional Board letter of approval for TMRP</del> <del>July 28, 2009</del></p> <p><del>January 28, 2011 and annually thereafter</del></p>
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<p><b>Malibu Creek Watershed</b> Trash</p> <p>Effective Date: June 26, 2009</p> <p>BPA: Attachment A, <del>Chapter 7-31</del></p> <p>Resolution No. R4-2008-007</p>	<p><b>WLA</b> <del>Final WLA is set at zero.</del></p> <table border="1"> <thead> <tr> <th><u>% WLA</u></th> <th><u>gal/yr</u></th> </tr> </thead> <tbody> <tr> <td><u>Initial WLA</u></td> <td><u>2,136</u></td> </tr> <tr> <td><u>80 %</u></td> <td><u>1,709</u></td> </tr> <tr> <td><u>60 %</u></td> <td><u>1,282</u></td> </tr> <tr> <td><u>40 %</u></td> <td><u>854</u></td> </tr> <tr> <td><u>20 %</u></td> <td><u>427</u></td> </tr> <tr> <td><u>0 %</u></td> <td><u>0</u></td> </tr> </tbody> </table> <p><b>Other</b> Trash Monitoring and Reporting Plan (TMRP). Implement Trash Monitoring Reporting Plan.</p> <p>Submit results of TMRP, recommend trash baseline WLA, and propose prioritization of Full Capture System installation or implementation of other trash reduction measures.</p>	<u>% WLA</u>	<u>gal/yr</u>	<u>Initial WLA</u>	<u>2,136</u>	<u>80 %</u>	<u>1,709</u>	<u>60 %</u>	<u>1,282</u>	<u>40 %</u>	<u>854</u>	<u>20 %</u>	<u>427</u>	<u>0 %</u>	<u>0</u>	<p><del>February 26</del> <u>July 7, 2009</u> <u>July 7, 2013</u> <u>July 7, 2014</u> <u>July 7, 2015</u> <u>July 7, 2016</u> <u>July 7, 2017</u></p> <p><del>December 26, 2009</del></p> <p><u>April 30, 2010</u></p> <p>Six -months from receipt of letter of approval from Regional Board Executive Officer</p> <p>One year from receipt of Regional Board letter of approval for -TMRP and annually thereafter</p>																																		
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<p><b>Los Angeles River</b> Trash</p> <p>Effective Date: July 24, 2008</p> <p>BPA: Attachment A, <del>Chapter 7-2</del></p> <p>Resolution No. R4-2007-012</p>	<p><b>WLA</b> <del>Baseline WLA for the Department is 66,566 lbs.</del></p> <p><del>Wasteload Allocation (lbs)</del> <del>39,939.6</del> <del>33,283</del> <del>22,626.4</del> <del>19,969.8</del> <del>13,313.2</del> <del>6,656.6</del> <del>0</del> <del>0</del> <del>Final WLA is set at zero</del></p> <p><u>TMDL requires phased reductions over a period of 9 years, from the existing baseline loads to zero (0).</u></p> <table border="1"> <thead> <tr> <th rowspan="2"><u>Year</u></th> <th colspan="3"><u>WLAs</u></th> <th colspan="3"><u>Compliance Point</u></th> </tr> <tr> <th><u>% Baseline</u></th> <th><u>gals.</u></th> <th><u>lbs</u></th> <th><u>% Baseline</u></th> <th><u>gals</u></th> <th><u>lbs</u></th> </tr> </thead> <tbody> <tr> <td><u>Initial WLA</u></td> <td><u>100 %</u></td> <td><u>59,421</u></td> <td><u>66,566</u></td> <td><u>100%</u></td> <td><u>59,421</u></td> <td><u>66,566</u></td> </tr> <tr> <td><u>1</u></td> <td><u>60 %</u></td> <td><u>35,563</u></td> <td><u>39,940</u></td> <td><u>60%</u></td> <td><u>39,940</u></td> <td><u>39,940</u></td> </tr> <tr> <td><u>2</u></td> <td><u>50 %</u></td> <td><u>29,711</u></td> <td><u>33,283</u></td> <td><u>55 %</u></td> <td><u>32,682</u></td> <td><u>36,611</u></td> </tr> <tr> <td><u>3</u></td> <td><u>40 %</u></td> <td><u>23,768</u></td> <td><u>26,626</u></td> <td><u>50 %</u></td> <td><u>29,711</u></td> <td><u>33,283</u></td> </tr> <tr> <td><u>4</u></td> <td><u>30 %</u></td> <td><u>17,826</u></td> <td><u>19,970</u></td> <td><u>40 %</u></td> <td><u>23,768</u></td> <td><u>26,626</u></td> </tr> </tbody> </table>	<u>Year</u>	<u>WLAs</u>			<u>Compliance Point</u>			<u>% Baseline</u>	<u>gals.</u>	<u>lbs</u>	<u>% Baseline</u>	<u>gals</u>	<u>lbs</u>	<u>Initial WLA</u>	<u>100 %</u>	<u>59,421</u>	<u>66,566</u>	<u>100%</u>	<u>59,421</u>	<u>66,566</u>	<u>1</u>	<u>60 %</u>	<u>35,563</u>	<u>39,940</u>	<u>60%</u>	<u>39,940</u>	<u>39,940</u>	<u>2</u>	<u>50 %</u>	<u>29,711</u>	<u>33,283</u>	<u>55 %</u>	<u>32,682</u>	<u>36,611</u>	<u>3</u>	<u>40 %</u>	<u>23,768</u>	<u>26,626</u>	<u>50 %</u>	<u>29,711</u>	<u>33,283</u>	<u>4</u>	<u>30 %</u>	<u>17,826</u>	<u>19,970</u>	<u>40 %</u>	<u>23,768</u>	<u>26,626</u>	<p><del>None Specified</del></p> <p>September 30, 2008</p> <p>September 30, 2009</p> <p>September 30, 2011</p> <p>September 30, 2012</p> <p>September 30, 2013</p> <p>September 30, 2014</p>
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REVISED – August 18, 2011

5	<u>20 %</u>	<u>11,884</u>	<u>13,313</u>	<u>30 %</u>	<u>September 30, 2015</u>	<u>19,970</u>
6	<u>10 %</u>	<u>5,942</u>	<u>6,657</u>	<u>20 %</u>	<u>11,884</u>	<u>13,313</u>
7	<u>0 %</u>	<u>0</u>	<u>0</u>	<u>10 %</u>	<u>September 30, 2016</u>	<u>5,942</u>
8	<u>0 %</u>	<u>0</u>	<u>0</u>	<u>3.3%</u>	<u>1,961</u>	<u>2,197</u>
9	<u>0 %</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>January 24, 2008</u>	<u>0</u>

**Other**  
Implementation report, outlining how the Department intends to comply with the TMDL.

**Ballona Creek, Ballona Estuary, and Sepulveda Channel**  
*Bacteria*

Effective Date: March 26, 2007

BPA: Attachment A,  
~~Chapter 7-21~~

Resolution No. R4-2006-011

**WLA**

~~WLAs are held jointly with multiple dischargers.~~ WLAs for Ballona Creek, Ballona Estuary and Sepulveda Channel

<u>Time Period</u>	<u>Ballona Estuary, Ballona Creek Reach 2, and Sepulveda</u>	<u>Ballona Creek Reach 1**</u>
<u>Summer Dry-Weather (April 1 to October 31)</u>	<u>Zero (0) exceedance days based on the applicable Single Sample Bacteria Water Quality Objective.</u>  <u>Zero (0) Exceedance days on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives.</u>	<u>No more than 10% of the Single Sample Bacteria Water Quality Objectives.</u>  <u>Zero (0) Exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives.</u>
<u>Winter-Dry Weather (November 1 – March 31)</u>	<u>Three (3) Exceedance days based on the applicable Single Sample Bacteria Water Quality Objectives.</u>	<u>No more than 10% of the Single Sample Water Quality Objectives.</u>  <u>Zero (0) Exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives.</u>
<u>Wet-Weather (days with ≥ 0.1 inch of rain + 3 days following the rain event).</u>	<u>17*** Exceedance days based on the applicable Single Sample Bacteria Water Quality Objectives.</u>  <u>Zero (0) Exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives.</u>	<u>No more than 10% of the Single Sample Water Quality Objectives.</u>  <u>Zero (0) exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives.</u>

March 26,  
~~2007~~2017

March 26,  
~~2008~~2017

~~September 26, 2009~~

\* Exceedance days fro Ballona Estuary based on REC-1 marine water numeric targets; for Ballona Creek Reach 2 based on LREC-1 Freshwater numeric targets; and for Sepulveda Channel, based on fresh water REC-1 numeric targets  
 \*\* Exceedance frequency for Ballona Creek Reach 1 based on the freshwater REC-2 numeric targets  
 \*\*\* In Reach 2, the greater of the allowable exceedance days under the reference system approach of high flow suspension shall apply.

**WLAs for Tributaries to the Impaired Reaches of Ballona Creek**

<u>Tributary</u>	<u>Point of Application</u>	<u>WQOs</u>	<u>WLAs (no. of Exceedance days)</u>
<u>Ballona Creek Reach 1</u>	<u>At confluence with Reach 2</u>	<u>LREC-1 Freshwater</u>	For single sample objectives (0) summer dry weather (3) Winter dry weather (17*) winter wet weather  For geometric mean objectives: (0) for all periods
<u>Benedict Canyon Channel</u>	<u>At confluence with Reach 2</u>	<u>LREC-1</u>	For single sample objectives (0) summer dry weather (3) Winter dry weather (17*) winter wet weather  For geometric mean objectives: (0) for all periods
<u>Ballona Creek Reach 2</u>	<u>At the confluence with Ballona Estuary</u>	<u>REC-1 Marine water</u>	For single sample objectives (0) summer dry weather (3) Winter dry weather (17) winter wet weather  For geometric mean objectives: (0) for all periods
<u>Centinella Creek</u>	<u>At the confluence of Ballona Estuary</u>	<u>REC-1 Marine water</u>	For single sample objectives (0) summer dry weather (3) Winter dry weather (17) winter

Three months after receipt of Regional Board comments on Draft Implementation Plan.

	<table border="1"> <tr> <td></td> <td></td> <td></td> <td>wet weather  For geometric mean objectives: (0) for all periods</td> </tr> <tr> <td><a href="#">Del Rey Lagoon</a></td> <td><a href="#">At the confluence with Ballona Estuary</a></td> <td><a href="#">REC-1 Marine water</a></td> <td>For single sample objectives (0) summer dry weather (3) winter dry weather (17) winter wet weather  For geometric mean objectives: (0) for all periods</td> </tr> </table> <p><i>* At the confluence with Reach 2, the greater the allowable Exceedance days under the system approach or high flow suspension shall apply.</i></p> <p><b>Other</b>  <del>Comprehensive Bacteria Water Quality Monitoring Plan</del>  <del>Draft Implementation Plan outlining approach for compliance with WLAs.</del>          Final Implementation Plan outlining approach for compliance with WLAs.</p>				wet weather  For geometric mean objectives: (0) for all periods	<a href="#">Del Rey Lagoon</a>	<a href="#">At the confluence with Ballona Estuary</a>	<a href="#">REC-1 Marine water</a>	For single sample objectives (0) summer dry weather (3) winter dry weather (17) winter wet weather  For geometric mean objectives: (0) for all periods																					
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<p><b>Marina del Rey, Harbor Back Basins, Mother's Beach</b>  <i>Bacteria</i></p> <p>Effective Date:  <del>—</del>March 18, 2004</p> <p>BPA: Attachment A,  <del>—</del>Chapter 7-5</p> <p>Resolution No. 2003-012</p>	<p><b>WLA</b>  <del>WLA is held jointly with multiple dischargers.</del></p> <p><b>Other</b>  <del>Draft Implementation Plan outlining approach for compliance with WLAs.</del>  <del>Final Implementation Plan outlining approach for compliance with WLAs.</del>  <del>Nonpoint Study for sources including storm drains, boats, birds, and other nonpoint sources.</del></p>	<p><del>None Specified</del></p> <p><del>March 30, 2005</del></p> <p><del>July 30, 2005</del></p>																												
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HYP (S9)	<a href="#">Mothers' Beach, at Lifeguard Tower</a>	0	0	3	1	17	3
DHS (109a)	<a href="#">Mothers' Beach, at Playground Area</a>	0	0	3	1	17	3
DHS (109b)	<a href="#">Mothers' Beach, between Lifeguard Tower and Boat Dock</a>	0	0	3	1	17	3
DHS (109c)	<a href="#">Los Angeles County Fire Dock - end of main channel</a>	0	0	3	1	17	3
DHB (MDR-8)	<a href="#">Mothers' Beach, near first slips outside swim area</a>	0	0	3	1	17	3
DHB (MDR-18)	<a href="#">Mothers' Beach, 20 meters off of the wheel chair ramp</a>	0	0	0	0	15	3
DHB (MDR-19)	<a href="#">Mothers' Beach, end of wheel chair ramp</a>	0	0	3	1	17	3
DHB (MDR-9)	<a href="#">Basin E, innermost end</a>	0	0	3	1	8	1
DHB (MDR-11)	<a href="#">End of Main Channel</a>	0	0	3	1	17	3
DHB (MDR-10)	<a href="#">Basin E, near center of basin</a>	0	0	3	1	17	3
DHB (MDR-20)	<a href="#">Basin E, in front of Tidegate from Oxford Basin</a>	0	0	3	1	17	3

Notes:

- <sup>1</sup> The number of allowable exceedances is based on the lesser of (1) the reference system or (2) existing of exceedance based on historical monitoring data. The allowable number of exceedance number days during winter dry-weather is calculated based on the 10<sup>th</sup> percentile storm year in terms of dry days at LAX meteorological station. The allowable number of exceedance days during wet-weather is calculated based on the 90<sup>th</sup> percentile storm year in terms of wet days at the LAX meteorological station.
- <sup>2</sup> If an Integrated Water Resources Approach is implemented, the compliance period must be the shortest possible but not to exceed 18 years from the effective date of the Santa Monica Bay Beaches Bacteria Weather TMDL.
- <sup>3</sup> A dry day is defined as a non-wet day. A wet day is defined as a day with a 0.1-inch or more of rain or three days following the rain event.
- <sup>4</sup> A revision of the TMDL is scheduled for four years after the effective date of the Santa Monica Bay Beaches Bacteria TMDLs in order to re-evaluate the allowable exceedance days during winter dry-weather and wet-weather based on additional monitoring data and the results of the study of relative loading from sources included but not limited to storm drains, boats, birds, and other nonpoint sources.

**Santa Monica Bay Beaches during Dry & Wet Weather Bacteria**

Effective Date:  
— June 19, 2003

BPA: Attachment A,  
— Chapter 7-4

Resolution No. 2002-004 and R02-022

**WLA**

WLA is held jointly with multiple dischargers.

None Specified

**Other**

Coordinated

Effective Date of this Order

The Department is responsible for achieving the WLAs identified below for all shoreline monitoring sites with the exception of those subject to Antidegradation Provisions.

October

Dry Weather

<u>Summer Dry Weather</u> <u>Apr 1 - Oct 31</u>		<u>Winter Dry Weather</u> <u>Nov 1 - Mar 31</u>	
<u>Daily sampling</u> <u>(No. days)</u>	<u>Weekly Sampling</u> <u>(No. days)</u>	<u>Daily sampling</u> <u>(No. days)</u>	<u>Weekly sampling</u> <u>(No. days)</u>
0	0	3	1

During the winter dry weather period, the Department is responsible for achieving the WLAs identified below for shoreline monitoring sites subject to Antidegradation provision.

Winter Dry Weather WLAs expressed as the Allowable Number of Exceedance Days for Shoreline Monitoring Plan Sites subject to Antidegradation Provisions.

Summer Dry

Weather:  
June 19, Mar 31  
2003 2006

October

Winter Dry

Weather:  
June 19,  
2003 2009

<u>Report of Water Discharges for the listed potential discharges and potential discharges into Area of Special Biological Significance.</u>	<u>Location Name</u>	<u>Winter Dry Weather</u> <u>Nov 1- Mar 31</u>	
		<u>Daily Sampling</u> <u>(No. Days)</u>	<u>Weekly Sampling</u> <u>(No. Days)</u>
<u>Station ID</u>			
<u>SMB 1-4</u>	<u>Trancas Beach</u>	0	0
<u>SMB 1-5</u>	<u>Westward Beach</u>	0	0
<u>SMB 2-13</u>	<u>Imperial Highway Storm Drain</u>	2	1
<u>SMB 3-8</u>	<u>Windward Ave Storm Drain</u>	2	1
<u>SMB 4-1</u>	<u>Nicholas Beach</u>	0	0

<a href="#">SMB 5-2</a>	<a href="#">40<sup>th</sup> Street, Manhattan State Beach</a>	1	1
<a href="#">SMB 5-2</a>	<a href="#">28<sup>th</sup> Street Storm Drain</a>	0	0
<a href="#">SMB 5-3</a>	<a href="#">Manhattan Beach Pier</a>	1	1
<a href="#">SMB 5-5</a>	<a href="#">Hermosa Beach Pier</a>	2	1
<a href="#">SMB 6-6</a>	<a href="#">Malaga Cove</a>	1	1

The Department is responsible for achieving the rolling 30-day geometric mean objectives, which shall not be exceeded at any time.

**Wet Weather**

The Department is responsible for achieving the wet weather WLAs identified below for all shoreline monitoring sites, with the exception of those subject to Antidegradation Provisions.

**Final Wet Weather WLAs** ( Allowable Number of Exceedance Days).

<b><u>Wet Weather</u></b>	
<b><u>Daily Sampling (No. Days)</u></b>	<b><u>Weekly Sampling (No. Days)</u></b>
17	3

Up to July 15, 2021 if an integrated water resources approach is used.; otherwise up to July 15, 2013 – Wet Weather

The Department is responsible for achieving the wet weather WLAs identified below for shoreline monitoring sites subject to Antidegradation provisions.

**Final Wet Weather WLAs** (Allowable Number of Exceedance Days for Shoreline Monitoring Sites subject to Antidegradation Provisions)

<b><u>Station ID</u></b>	<b><u>Location Name</u></b>	<b><u>Daily Sampling (No. Days)</u></b>	<b><u>Weekly Sampling (No. Days)</u></b>
<a href="#">DHS 010a</a>	<a href="#">Broad Beach</a>	15	3
<a href="#">SMB 3-8</a>	<a href="#">Windward Ave Storm Drain</a>	13	2
<a href="#">SMB 4-1</a>	<a href="#">Nicholas Beach</a>	14	2
<a href="#">SMB 5-1</a>	<a href="#">40<sup>th</sup> Street, Manhattan State Beach</a>	4	1
<a href="#">SMB 5-3</a>	<a href="#">Manhattan Beach Pier</a>	5	1
<a href="#">SMB 5-4</a>	<a href="#">26<sup>th</sup> Street, Hermosa Beach</a>	12	2
<a href="#">SMB 5-5</a>	<a href="#">Hermosa Beach Pier</a>	8	2
<a href="#">SMB 6-2</a>	<a href="#">Redondo Municipal Pier</a>	14	2
<a href="#">SMB 6-5</a>	<a href="#">Avenue I Storm Drain, Redondo State Beach</a>	6	1
<a href="#">SMB 6-6</a>	<a href="#">Malaga Cove</a>	3	1

The Department is responsible for achieving the rolling 30-day geometric mean targets, which shall not be exceeded at any time.

<p><b><del>Santa Monica Bay Beaches during Wet Weather - Malibu Creek and Lagoon</del></b> Bacteria</p> <p>Effective Date: <u>January 10, 2006</u> <del>June 19, 2003</del></p> <p>BPA: Attachment A to <u>Chapter 7-10</u></p> <p>Resolution No. <u>2002-022, Chapter 7-4.4, 7-4.5, 7-4.6, 2004-019R 7-4.7.</u></p> <p><del>Resolution No. 2002-002, 2006-005, 2006-006, 2006-007, 2006-008</del></p>	<p><b><del>WLA</del></b> <b><del>Wasteload Allocation</del></b> WLA is held jointly with multiple dischargers.</p> <p><b><del>Other</del></b> <b><del>Coordinated Monitoring Plan</del></b></p> <p><del>Draft Implementation Plan outlining approach for compliance with WLAs.</del></p> <p><del>Final Implementation Plan outlining approach for compliance with WLAs. Dry Weather WLAs express as the Allowable Number of Exceedance Days</del></p> <table border="1" data-bbox="690 598 1153 787"> <thead> <tr> <th colspan="2"><u>Summer Dry Weather</u> <u>Apr 1 – Oct 31</u></th> <th colspan="2"><u>Winter Dry Weather</u> <u>Nov 1 – Mar 31</u></th> </tr> <tr> <th><u>Daily Sampling</u> <u>(No. Days)</u></th> <th><u>Weekly Sampling</u> <u>(No. Days)</u></th> <th><u>Daily Sampling</u> <u>(No. Days)</u></th> <th><u>Weekly Sampling</u> <u>(No. Days)</u></th> </tr> </thead> <tbody> <tr> <td align="center">0</td> <td align="center">0</td> <td align="center">3</td> <td align="center">1</td> </tr> </tbody> </table> <p><u>Wet Weather WLAs expressed as the Allowable Number of Exceedance Days</u></p> <table border="1" data-bbox="690 892 1128 1039"> <thead> <tr> <th colspan="2"><u>Wet Weather</u></th> </tr> <tr> <th><u>Daily Sampling</u> <u>(No. Days)</u></th> <th><u>Weekly Sampling</u> <u>(No. Days)</u></th> </tr> </thead> <tbody> <tr> <td align="center">17</td> <td align="center">3</td> </tr> </tbody> </table> <p>The Department is responsible for achieving the rolling 30-day geometric mean targets, which shall not be exceeded at any time.</p>	<u>Summer Dry Weather</u> <u>Apr 1 – Oct 31</u>		<u>Winter Dry Weather</u> <u>Nov 1 – Mar 31</u>		<u>Daily Sampling</u> <u>(No. Days)</u>	<u>Weekly Sampling</u> <u>(No. Days)</u>	<u>Daily Sampling</u> <u>(No. Days)</u>	<u>Weekly Sampling</u> <u>(No. Days)</u>	0	0	3	1	<u>Wet Weather</u>		<u>Daily Sampling</u> <u>(No. Days)</u>	<u>Weekly Sampling</u> <u>(No. Days)</u>	17	3	<p><del>None Specified</del></p> <p><u>Summer Dry Weather:</u></p> <p><del>November 12, 2003</del></p> <p><del>February 19, 2005</del></p> <p><del>June 19, 2005</del></p> <p><del>April 1, 2009</del></p> <p><u>January 10, 2016</u></p>									
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<p><b><del>Malibu Creek Harbor Beaches of Ventura County (Kiddie Beach and Lagoon Hobie Beach)</del></b> Bacteria</p> <p>Effective Date: <del>January 10, 2006</del> <u>December 18, 2008</u></p> <p>BPA: Attachment A, <del>Chapter 7-10</del> <u>Chapter 7-1028</u></p> <p>Resolution No. <del>2004-019R</del> <u>R2007-017</u></p>	<p><b><del>Wasteload Allocation</del></b> <del>None-specified</del> <b><del>WLA</del></b></p> <p><u>Interim WLAs for Single Sample and 30-day rolling geometric mean Exceedances:</u></p> <p><b><del>Summer Dry-Weather</del></b></p> <table border="1" data-bbox="690 1417 1291 1554"> <thead> <tr> <th><u>Location</u></th> <th><u>Daily Sampling</u></th> <th><u>Weekly Sampling</u></th> </tr> </thead> <tbody> <tr> <td><u>Kiddie Beach</u></td> <td align="center">54</td> <td align="center">8</td> </tr> <tr> <td><u>Hobie Beach</u></td> <td align="center">40</td> <td align="center">6</td> </tr> </tbody> </table> <p><b><del>Winter Dry-Weather</del></b></p> <table border="1" data-bbox="690 1648 1299 1753"> <thead> <tr> <th><u>Location</u></th> <th><u>Daily Sampling</u></th> <th><u>Weekly Sampling</u></th> </tr> </thead> <tbody> <tr> <td><u>Kiddie Beach</u></td> <td align="center">23</td> <td align="center">4</td> </tr> <tr> <td><u>Hobie Beach</u></td> <td align="center">25</td> <td align="center">4</td> </tr> </tbody> </table> <p><b><del>Wet-Weather</del></b></p> <table border="1" data-bbox="690 1816 1299 1921"> <thead> <tr> <th><u>Location</u></th> <th><u>Daily Sampling</u></th> <th><u>Weekly Sampling</u></th> </tr> </thead> <tbody> <tr> <td><u>Kiddie Beach</u></td> <td align="center">32</td> <td align="center">5</td> </tr> <tr> <td><u>Hobie Beach</u></td> <td align="center">38</td> <td align="center">6</td> </tr> </tbody> </table>	<u>Location</u>	<u>Daily Sampling</u>	<u>Weekly Sampling</u>	<u>Kiddie Beach</u>	54	8	<u>Hobie Beach</u>	40	6	<u>Location</u>	<u>Daily Sampling</u>	<u>Weekly Sampling</u>	<u>Kiddie Beach</u>	23	4	<u>Hobie Beach</u>	25	4	<u>Location</u>	<u>Daily Sampling</u>	<u>Weekly Sampling</u>	<u>Kiddie Beach</u>	32	5	<u>Hobie Beach</u>	38	6	<p><del>None Specified</del></p> <p><del>May 10, 2006</del></p> <p><del>January 10, 2007</del></p> <p><del>January 10, 2008</del></p> <p><u>December 18, 2008</u></p> <p><u>December 18, 2008</u></p>
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<p>The WLA for the rolling 30-day geometric mean during any time period or monitoring site is zero (0) days of allowable exceedances.</p> <p><b>Other</b></p> <p><del>Submit a Comprehensive bacteria water quality monitoring plan for the Malibu Creek Watershed to the approval by Executive Officer of the Regional Board.</del></p> <p><del>Written Report to outline how the Department intends to cooperatively achieve compliance with TMDL, and steps to 3-year summer dry weather compliance schedule with a detailed timeline for all categories of bacteria sources.</del></p> <p><del>Reference Watershed Study</del></p> <p><del>Draft Dry-Weather Workplan to implement source control BMPs</del></p> <p><del>Final Dry –Weather Workplan to implement source control and BMPs</del></p>		<p><a href="#">December 18, 2013</a></p> <p><a href="#">Prior to the modification of existing monitoring locations or frequencies.</a></p> <p><a href="#">June 18, 2010</a></p> <p><a href="#">June 18, 2012</a></p> <p><a href="#">December 18, 2012</a></p> <p><a href="#">December 18, 2014 and December 18, 2016</a></p> <p><a href="#">December 18, 2018</a></p>																			

Final Wet-Weather Workplan: to implement source control and BMPs.

Compliance Report for dry-weather, interim wet-weather allocations, and rolling 30-day geometric mean targets

Final Compliance Report

**Harbor Beaches of Ventura County (Kiddie Beach and Hobie Beach) Bacteria**

**Ballona Creek**  
Metals

Effective Date: ~~December 18, 2008~~ December 22, 2005  
and reaffirmed on October 29, 2008

BPA: Attachment -A

~~Chapter 7-12~~

Resolution No. ~~R2007-017~~

015

**WLA**

**Interim WLAs for Single Sample and 30-day rolling geometric mean Exceedances:**

**Summer**

**Dry-Weather**

Location	Daily Sampling	Weekly Sampling
Kiddie Beach	54	8
Hobie Beach	40	6

**Winter Dry-Weather**

Location	Daily Sampling	Weekly Sampling
Kiddie Beach	23	4
Hobie Beach	25	4

**Wet-Weather**

Location	Daily Sampling	Weekly Sampling
Kiddie Beach	32	5
Hobie Beach	38	6

**30-day Rolling Geometric Mean Exceedances:**

Location	Daily Sampling	Weekly Sampling
Kiddie Beach	55	8
Hobie Beach	80	12

**Final Allowable Exceedance Days:**

~~Summer-dry~~

~~Winter-dry~~

~~Weather~~

~~Weather~~

~~Location Daily Weekly~~

~~Daily Weekly~~

~~Location Sampling Sampling~~

~~Sampling Sampling~~

~~(No. days) (No. days)~~

~~(No. days) (No. days)~~

~~Kiddie Beach 0 0~~

~~3 1~~

~~Hobie Beach 0 0~~

~~3 1~~

~~Wet-Weather~~

~~Location Daily Weekly~~

~~Location Sampling Sampling~~

~~(No. days) (No. days)~~

~~Kiddie Beach 17 3~~

**Total Dry Weather Area:**

On-going

On-going

On-going

On-going

Five years after effective date of TMDL

Ten years after effective date of TMDL

Prior to the modification of existing monitoring locations or frequencies.

~~Hobie Beach 17 3~~

**Other**

Monitoring Plan for approval by Executive Officer.

~~June 18, 2009  
June 18, 2010  
June 18 50% by  
January 11, 2012  
December 18,  
2012  
December 18  
75% by  
January 11, 2014  
and December 18  
100% by  
January 11, 2016~~

~~Draft Dry Weather Workplan to implement source control BMPs~~

~~Workplan piloting structural BMPs (optional)~~

~~Final Dry Weather Workplan to implement source control and BMPs~~

~~Final Wet Weather Workplan to implement source control and BMPs.~~

~~Compliance Report for dry weather, interim wet weather allocations, and rolling 30-day geometric mean targets WLAs (grams total recoverable metals/day):~~

~~Final Compliance Report~~

~~Final WLAs Compliance~~

<u>Metals</u>	<u>Ballona Creek</u>	<u>Sepulveda</u>
<u>Copper</u>	<u>11.2</u>	<u>5.1</u>
<u>Lead</u>	<u>6.0</u>	<u>2.7</u>
<u>Selenium</u>	<u>2.0</u>	<u>1</u>
<u>Zinc</u>	<u>143.1</u>	<u>64.7</u>

~~December 18,  
2018  
December 18,  
2018 Total Wet  
Weather Area:  
25% by  
January 11, 2012  
50% by  
January 11, 2016  
100% by  
January 11, 2021~~

Wet-weather WLA (total recoverable metals) for all reaches and tributaries (grams/day):

<u>Metal</u>	<u>WLA (grams/day)</u>
<u>Copper</u>	<u>2.37E-07 x Daily storm water volume (L)</u>
<u>Lead</u>	<u>7.78E-07 x Daily storm water volume (L)</u>
<u>Selenium</u>	<u>6.59E-08 x Daily storm water volume (L)</u>
<u>Zinc</u>	<u>1.57E-06 x Daily storm water volume (L)</u>

**Ballona Calleguas Creek and Its Tributaries and Mugu Lagoon**  
*Metals and Selenium*

Effective Date: ~~December 22, 2005~~ March 26, 2007  
and reaffirmed on October 29, 2008

BPA: Attachment A,  
—Chapter 7-12 and Attachment B-19

Resolution No. ~~R05-007~~ and  
~~Resolution No. R2007-015~~ R4-2006-012

**WLA**

The Department and other responsible jurisdictions are jointly assigned WLAs.

**Dry-weather storm water WLAs (grams total recoverable metals/day):**

	<u>Ballona Creek</u>	<u>Sepulveda</u>
<del>Copper</del>	<del>11.2</del>	<del>5.1</del>
<del>Lead</del>	<del>6.0</del>	<del>2.7</del>
<del>Selenium</del>	<del>2.0</del>	<del>1</del>
<del>Zinc</del>	<del>143.1</del>	<del>64.7</del>

~~None Specified~~

~~Wet-weather storm water WLA (total recoverable~~

~~None Specified~~

metals) for all reaches and tributaries (grams/day):  
 Copper — 2.37E-07 x Daily storm water volume (L)  
 Lead — 7.78E-07 x Daily storm water volume (L)  
 Selenium — 6.59E-08 x Daily storm water volume (L)  
 Zinc — 1.57E-06 x Daily storm water volume (L)

March 26, 2007

**A. Interim Limits**

Constituents	Calleguas and Conejo Creek				Revolon Slough	
	Dry CMC (µg/l)	Dry CCC (µg/l)	Wet CMC (µg/l)	Dry CMC (µg/l)	Dry CCC (µg/l)	Wet CMC (µg/l)
Copper	23	19	204	23	13	204
Nickel	15	13	(a)	15	13	(a)
Selenium	(b)	(b)	(b)	14	13	(a)

- (a) The current loads do not exceed the TMDL under wet conditions; interim limits are not required.
- (b) Selenium allocations have not been developed for this reach as it is not on the 303(d) list.
- (c) Attainment of interim limits will be evaluated in consideration of background loading data, if available.

January 11, 2007

January 11, 2010

July 11, 2010

**B. Final WLAs for Total Recoverable Copper, Nickel, and Selenium**

**Dry-Weather WLAs in Water Column**

Flow Range	Calleguas and Conejo Creek			Revolon Slough		
	Low Flow	Average Flow	Elevated Flow	Low Flow	Average Flow	Elevated Flow
Copper <sup>1</sup> (lbs/day)	0.04* WER 0.02	0.12* WER 0.02	0.18* WER 0.03	0.03* WER -0.01	0.06* WER 0.03	0.13* WER 0.02
Nickel (lbs/day)	0.100	0.120	0.440	0.050	0.069	0.16
Selenium (lbs/day)	(a)	(a)	(a)	0.004	0.004	0.004

- <sup>1</sup> If site-specific WERs are approved by the Regional Board, TMDL WLAs shall be implemented in accordance with the approved WERs using the equations set forth above. Regardless of the final WERs, total copper loading shall not exceed current loading.
- (a) Selenium allocations have not been developed for this reach as it is not on the 303(d) list.

**Percent reduction in the difference between current loads and final WLA:**

March 26, 2012

50% by March 26, 2017

100% by March 26, 2022

**Percent reduction in the difference between current loads and final WLA:**

25% by March 26, 2012

50% by March 26, 2017

100% by March 26, 2022

**Wet-Weather WLAs in Water Column**

Constituent	Calleguas Creek	Revolon Slough
Copper <sup>1</sup> (lbs/day)	$(0.0054 \cdot Q^2 + 0.032 \cdot Q - 0.17) \cdot \text{WER}$	$(0.002 \cdot Q^2 + 0.005 \cdot Q) \cdot \text{WER}$
Nickel <sup>2</sup> (lbs/day)	$0.014 \cdot Q^2 + 0.82 \cdot Q$	$0.027 \cdot Q^2 + 0.47 \cdot Q$
Selenium <sup>2</sup> (lbs/day)	(a)	$0.027 \cdot Q^2 + 0.47 \cdot Q$

- <sup>1</sup> If site-specific WERs are approved by the Regional Water Board, TMDL WLAs shall be implemented in accordance with the approved WERs using the equations set forth above. Regardless of the final WERs, total copper loading shall not exceed current loading.
- <sup>2</sup> Current loads do not exceed loading capacity during wet weather. Sum of all loads cannot exceed loads presented in the table.

(a) Selenium allocation have not been developed for this reach as it is not on the 303(d) list. Implementation actions include consideration of the watershed-wide selenium impacts.  
 Q: Daily Storm Volume.

Interim Limits for Mercury in Suspended Sediment

**Interim Limits and Final WLAs for Mercury in Suspended Sediment**

Final WLAs are set at 80% reduction of HSPF load estimates. Interim limits for mercury in suspended sediment are set equal to the highest annual load within each flow category, based on HSPF output for the years 1993-2003.

March 26, 2022 – Final WLAs for Mercury in Suspended Sediment

<u>Range Flow</u>	<u>Calleguas Creek</u>		<u>Revolon Slough</u>	
	<u>Interim (lbs/yr)</u>	<u>Final (lbs/yr)</u>	<u>Interim (lbs/yr) 30, 2009</u>	<u>Final (lbs/yr) March 26, 2009</u>
<u>0-15,000 MGY</u>	<u>3.3</u>	<u>0.4</u>	<u>1.7</u>	<u>0.1</u>
<u>15,000-25,000 MGY</u>	<u>10.5</u>	<u>1.6</u>	<u>4</u>	<u>0.7</u>
<u>Above 25, 000 MGY</u>	<u>64.6</u>	<u>9.3</u>	<u>10.2</u>	<u>1.8</u>

MGY: million gallons per year.

**Other**

~~Coordinated Monitoring Plan, including both ambient and TMDL effectiveness monitoring.~~

Within one year of approval of UWQMP by the Executive Officer

~~Draft Report outlining approach for compliance with WLA~~

Within six months of completion of Study

~~Final Report outlining approach for compliance with WLA.~~

March 26, 2009

Implement Calleguas Creek Watershed Metals and Selenium Monitoring Program

Within one year of approval of Workplan by Executive Officer

Conduct a source control study, develop and submit an Urban Water Quality Management Program (UWQMP) for copper, mercury, nickel, and selenium.

Implement UWQMP

Within one year of the completion of Studies

March 26, 2013

Evaluate results of the OC pesticides TMDL, Special Study – Calculation of sediment transport rates in the Calleguas Creek Watershed for applicability to the metals and selenium TMDL.

Within one year of the completion of Studies

Include monitoring for copper, mercury, nickel, and selenium in the OC pesticides TMDL, Special Study – Monitoring of sediment by source and land use type.

Submit results of Special Study #2; Identification of Selenium Contaminated Groundwater Sources

Submit workplan for Special Study #3 – Investigation of metals “Hot Spot” and Natural Soil

Evaluate the effectiveness of BMPs implemented under

	<p><u>the UWQMP</u></p> <p>Evaluate the results of implementation actions Special Studies #2 and #3 and implement actions identified by studies.</p>																																									
<p><b>Calleguas Creek and Its Tributaries and Mugu Lagoon</b>  <u>Los Angeles River</u>  <i>Metals and Selenium</i></p> <p>Effective Date: <del>March 26, 2007</del> <u>December 22, 2005 and October 29, 2008</u></p> <p>BPA: Attachment A, Chapter 7-<del>19</del><u>13</u> and <u>Attachment B.</u></p> <p>Resolution No. <del>R4-2006-012</del>  <u>R2007-014</u></p>	<p><b>WLA</b>                  The Department and other responsible jurisdictions are jointly assigned WLAs. Interim WLAs for mercury in sediment are mass-based.</p> <p><b>Other</b>                  Submit Calleguas Creek Watershed Metals and Selenium Monitoring Program</p> <p>Implement Calleguas Creek Watershed Metals and Selenium Monitoring Program</p> <p>Conduct a source control study, develop and submit an Urban Water Quality Management Program (UWQMP) for copper, mercury, nickel, and selenium.</p> <p>Implement UWQMP</p> <p>Evaluate the results of the OCs TMDL, Special Study for calculation of sediment transport rates.</p> <p>Evaluate results of the OC pesticides TMDL, Special Study—Calculation of sediment transport rates in the Calleguas Creek Watershed for applicability to the metals and selenium TMDL.</p> <p>Workplan for Special Study #3: Investigation of Metals' "Hot Spot" and Natural Soil.</p> <p>Evaluate the effectiveness of BMPs implemented under the UWQMP</p> <p>Evaluate the results of implementation actions Special Studies #2 and #3 and implement actions identified by studies.</p> <p><b>Dry-weather WLAs - total recoverable metals</b></p>	<p>None Specified</p> <p>June 26, 2007</p> <p>Within three months of Executive Officer approval of the monitoring program.</p> <p>March 26, 2009</p> <p>Within one year of approval of UWQMP</p> <p><b>Total Dry-weather Area meeting:</b></p> <p>50% by the Executive Officer.</p> <p>Within six months of Completion of Study</p> <p>Within two years of approval of Workplan <u>January 12, 2012</u></p> <p>75% by Executive</p> <p>Within two years of approval of Workplan <u>January 11, 2020</u></p> <p>100% by Executive Officer.</p>																																								
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<a href="#">Verdugo Wash</a>	0.18	0.10	
<a href="#">Arroyo Seco</a>	0.01	0.01	
<a href="#">Rio Hondo Reach 1</a>	0.01	0.006	0.16
<a href="#">Compton Creek</a>	0.04	0.02	

**Wet-weather WLAs - total recoverable metals**

Constituent	WLA (kg/day)
<a href="#">Cadmium</a>	$5.3 \times 10^{-11} \times \text{daily volume (L)} - 0.03$
<a href="#">Copper</a>	$2.9 \times 10^{-10} \times \text{daily volume (L)} - 0.2$
<a href="#">Lead</a>	$1.06 \times 10^{-9} \times \text{daily volume (L)} - 0.07$
<a href="#">Zinc</a>	$2.7 \times 10^{-9} \times \text{daily volume (L)} - 1.6$

**Total Wet-weather Area meeting:**

25% by [January 11, 2012](#)

50% by [January 11, 2024](#)

100% by [January 11, 2028](#)

Note: Water effects ratio (WER(s)) have a default value of 1.0 unless site-specific WER(s) are approved.

**Los Angeles River Metals**

**Ballona Creek Estuary Toxic Pollutants**

Effective Date: December 22, 2005 ~~and October 29, 2008~~

BPA: Attachment A, ~~Chapter 7-13 and Attachment B-14~~

Resolution No. ~~R10-003, R05-006, and R2007-014~~ [R4-2005-008](#)

**WLA**

~~Wet-weather WLAs - total recoverable metals (kg/day):~~

~~Cadmium — WER x  $5.3 \times 10^{-11}$  x daily volume (L) — 0.03~~  
~~Copper — WER x  $2.9 \times 10^{-10}$  x daily volume (L) — 0.2~~  
~~Lead — WER x  $1.06 \times 10^{-9}$  x daily volume (L) — 0.07~~  
~~Zinc — WER x  $1.2 \times 10^{-9}$  x daily volume (L) — 1.6~~

None Specified

**Total Drainage Area meeting Metals and Organics WLAs:**

25% by

[April 11, 2007](#)

[January 11, 2010](#)

[July 11, 2010](#)  
[December 22, 2012](#)

50% by [December 22, 2014](#)

75% by [December 22, 2016](#)

100% by [December 22, 2020](#)

[December 22, 2006](#)

[December 22, 2011](#)

[June 22, 2011](#)

Note: Water effects ratio (WER(s)) have a default value of 1.0 unless site-specific WER(s) are approved.

**Metals WLAs for sediment in storm water**

Constituent	WLA (kg/yr)
<a href="#">Cadmium</a>	0.11
<a href="#">Copper</a>	3.2
<a href="#">Lead</a>	4.4
<a href="#">Silver</a>	0.09
<a href="#">Zinc</a>	14

**Organics WLAs**

Constituent	WLA (g/yr)
<a href="#">Chlordane</a>	0.05
<a href="#">DDTs</a>	0.15
<a href="#">Total PCBs</a>	2
<a href="#">Total PAHs</a>	400

**Other**

Coordinated Monitoring Plan

Draft ~~Report~~ [report](#) outlining approach for ~~compliance with~~ WLAs that includes implementation methods, implementation schedules, proposed milestones, and

	<p>any revisions to <del>the</del> TMDL effectiveness <a href="#">monitoring plan</a>.</p> <p>Final <del>Report</del> <a href="#">report</a> outlining <a href="#">approach for</a> WLAs compliance.</p>															
<p><b><del>Ballona Creek Estuary</del> <a href="#">Marina del Rey Harbor</a></b>  <b>Toxic Pollutants</b></p> <p>Effective Date: <del>December 22, 2005</del>  <a href="#">March 16, 2006</a></p> <p>BPA: Attachment A,  <del>Chapter 7-14</del> <a href="#">18</a></p> <p>Resolution No.  R4-2005-<del>008</del> <a href="#">012</a></p>	<p><b><del>WLA</del> <a href="#">WLAs</a></b></p> <p><b>Metals <del>WLAs for storm water (kg/yr)</del></b>  <del>Cadmium - 0.11</del>  <del>Copper - 3.2</del>  <del>Lead - 4.4</del>  <del>Silver - 0.09</del>  <del>Zinc - 14</del></p> <table border="1" data-bbox="690 535 1291 682"> <thead> <tr> <th><a href="#">Constituent</a></th> <th><a href="#">WLAs (Kg/yr)</a></th> </tr> </thead> <tbody> <tr> <td><a href="#">Copper</a></td> <td><a href="#">0.022</a></td> </tr> <tr> <td><a href="#">Lead</a></td> <td><a href="#">0.03</a></td> </tr> <tr> <td><a href="#">Zinc</a></td> <td><a href="#">0.096</a></td> </tr> </tbody> </table> <p><b>Organics <del>WLAs for storm water (g/yr)</del></b>  <del>Chlordane - 0.05</del>  <del>DDTs - 0.15</del>  <del>Total PCBs - 2</del>  <del>Total PAHs - 400</del></p> <table border="1" data-bbox="690 850 1291 976"> <thead> <tr> <th><a href="#">Constituent</a></th> <th><a href="#">WLAs (g/yr)</a></th> </tr> </thead> <tbody> <tr> <td><a href="#">Chlordane</a></td> <td><a href="#">0.0003</a></td> </tr> <tr> <td><a href="#">Total PCBs</a></td> <td><a href="#">0.015</a></td> </tr> </tbody> </table> <p><b>Other</b>  Coordinated Monitoring Plan</p> <p><a href="#">Results of any Special Studies</a></p> <p>Draft report outlining approach for <a href="#">compliance with</a> WLAs that includes implementation methods, implementation schedules, proposed milestones, and any revisions to TMDL effectiveness <del>monitoring plan</del>.</p> <p>Final report outlining approach for WLAs compliance <a href="#">with WLAs</a>.</p> <p><del>Demonstrate that 25% of the total drainage area served by MS4 system is effectively meeting the WLA for sediment.</del></p> <p><del>Demonstrate that 50% of total drainage area served by the MS4 system is effectively meeting the WLA for sediment.</del></p> <p><del>Demonstrate that 75% of total drainage area served by</del></p>	<a href="#">Constituent</a>	<a href="#">WLAs (Kg/yr)</a>	<a href="#">Copper</a>	<a href="#">0.022</a>	<a href="#">Lead</a>	<a href="#">0.03</a>	<a href="#">Zinc</a>	<a href="#">0.096</a>	<a href="#">Constituent</a>	<a href="#">WLAs (g/yr)</a>	<a href="#">Chlordane</a>	<a href="#">0.0003</a>	<a href="#">Total PCBs</a>	<a href="#">0.015</a>	<p><del>None Specified</del></p> <p><del>None Specified</del></p> <p><del>December 22, 2006</del></p> <p><del>December 22, 2010</del></p> <p><del>June 22, 2011</del></p> <p><del>December 22, 2012</del></p> <p><del>December 22</del> <a href="#">If pursuing a TMDL Specific Implementation Plan meet WLAs at:</a></p> <p><del>50% by</del> <a href="#">March 16, 2014</a></p> <p><del>100% by</del> <del>December 22</del> <a href="#">March 16, 2016</a></p> <p><a href="#">If pursuing an Integrated Resources Approach per Regional Water Board Approval meet WLA at:</a></p> <p><del>December 22, 2020</del> <a href="#">25% by</a> <a href="#">March 16, 2013</a></p> <p><del>50% by</del> <a href="#">March 16, 2015</a></p> <p><del>75% by</del> <a href="#">March 16, 2017</a></p> <p><del>100% by</del></p>
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the MS4 system is effectively meeting the WLA for sediment.

Demonstrate that 100% of total drainage area served by the MS4 system is effectively meeting the WLA for sediment.

[March 16, 2021](#)  
[March 16, 2007](#)  
[March 16, 2011](#)  
[March 16, 2011](#)  
[September 16, 2011](#)

**Marina del Rey Harbor**  
*Toxic Pollutants*

**Calleguas Creek, Its Tributaries and Mugu Lagoon**  
*Organochlorine Pesticides (OC), Polychlorinated Biphenyls (PCBs), and Siltation*

Effective Date:  
March ~~16~~14, 2006

BPA: Attachment A  
~~Chapter 7-18~~ 17

Resolution No.  
R4-2005-~~01~~2010

**WLA**

A grouped mass-based WLA is developed for storm water permittees by subtracting the load allocations from the total loading capacity. WLAs are held jointly with multiple dischargers.

1. **Metals** storm water WLAs Apportioned between Permits (kg/yr): Interim and Final WLAs for Pollutants in Sediment

Copper ~~0.022~~  
Lead ~~0.03~~  
Zinc ~~0.096~~

**Organics** storm water WLAs Apportioned between Permits (g/yr)

Chlordane ~~0.0003~~  
Total PCBs ~~0.015~~

**a) Interim WLAs (ng/g)**

None Specified  
None Specified

**Interim WLAs:**  
March ~~16,~~  
~~2007~~14, 2006

Constituent	Subwatershed					
	Mugu Lagoon <sup>1</sup>	Calleguas Creek	Revolon Slough	Arroyo Las Posas	Arroyo Simi	Conito Creek
<b>Chlordane</b>	25.0	17.0	48.0	3.3	3.3	3.4
<b>4,4,-DDD</b>	69.0	66.	400.0	290.0	14.0	3.3
<b>4,4,-DDE</b>	300.0	470.0	16,000	950.0	170.0	20.0
<b>4,4,-DDT</b>	39.0	110.0	690.0	670.0	25.0	3.0
<b>Dieldrin</b>	19.0	3.0	5.7	1.1	1.1	3.0
<b>PCBs</b>	180.0	3800.0	7600.0	25700.0	25700.0	3800.0
<b>Toxaphene</b>	22900.0	260.0	790.0	230.0	230.0	200.0

<sup>1</sup> The Mugu Lagoon subwatershed includes Duck Pond /Agricultural Drain/Mugu/Oxnard Drain #2

Compliance with sediment based WLA is measured as an instream annual average at the base of each watershed where discharges are located.

**Final WLAs:**  
March ~~16,~~  
~~2011~~14, 2026

**b) Final WLAs (ng/g)**

Constituent	Subwatershed					
	Mugu Lagoon <sup>1</sup>	Calleguas Creek	Revolon Slough	Arroyo Las Posas	Arroyo Simi	Conito Creek
<b>Chlordane</b>	3.3	3.3	0.9	3.3	3.3	3.3
<b>4,4,-DDD</b>	2.0	2.0	2.0	2.0	2.0	2.0

<a href="#">4,4-DDE</a>	<a href="#">2.2</a>	<a href="#">1.4</a>	<a href="#">1</a>				
<a href="#">4,4-DDT</a>	<a href="#">0</a>	<a href="#">0.3</a>	<a href="#">0</a>				
<a href="#">Dieldrin</a>	<a href="#">4.3</a>	<a href="#">0.2</a>	<a href="#">0.1</a>	<a href="#">0.2</a>	<a href="#">0.2</a>	<a href="#">0.2</a>	<a href="#">0</a>
<a href="#">PCBs</a>	<a href="#">180.0</a>	<a href="#">120.0</a>	<a href="#">130.0</a>	<a href="#">120.0</a>	<a href="#">120.0</a>	<a href="#">120.0</a>	<a href="#">12</a>
<a href="#">Toxaphene</a>	<a href="#">360.0</a>	<a href="#">0.6</a>	<a href="#">1.0</a>	<a href="#">0.6</a>	<a href="#">0.6</a>	<a href="#">0.6</a>	<a href="#">0</a>
<sup>1</sup> <a href="#">The Mugu Lagoon subwatershed includes Duck Pond /Agricultural Drain/Mugu/Oxnard Drain #2</a>						<del>March 16, 2011</del> <a href="#">24, 2015</a>	
<b>2. Siltation WLA for MS4</b> <a href="#">MS4 dischargers will receive an allocation of 2,496-tons/year reduction in sediment yield to Mugu Lagoon. The baseline from which the load reduction will be evaluated will be determined by a special study of this TMDL. The load allocation will apply after the baseline is established as described in the implementation plan.</a>						<del>September 16, 2011</del> <a href="#">14, 2006</a>  <a href="#">August 10, 2008</a>  <a href="#">March 14, 2007</a>	
<b>Other</b> <del>Coordinated</del> <a href="#">Workplan for OC pesticides and PCBs or an Integrated Calleguas Creek Watershed OC pesticide and PCBs Monitoring Plan Program.</a>						<del>March 16, 2014</del> <a href="#">14, 2007</a>	
<del>Results</del> <a href="#">Initiate OC pesticide, PCBs, and siltation Monitoring Program</a>						<del>March 16, 2016</del> <a href="#">14, 2007</a>	
<a href="#">Workplan to identify urban, industrial and domestic sources of any Special Studies</a>						<del>March 16, 2013</del> <a href="#">14, 2011</a>	
<del>Draft report outlining approach for compliance with WLAs that includes implementation OC pesticides, PCBs, control methods, implementation schedule, proposed milestones, and any revisions to TMDL effectiveness and methods to implement collection and disposal.</del>						<del>March 16, 2015</del> <a href="#">14, 2014</a>	
<del>Final report outlining approach for WLAs compliance with WLAs. Special Study #1 Workplan and convene a Science Advisory Panel</del>						<del>March 16, 2017</del> <a href="#">14, 2015</a>	
<del>If pursuing a TMDL Specific Implementation Plan</del> <a href="#">Special Study #2 study to identify land area with high OC pesticides and PCBs concentrations and workplan.</a>						<del>March 16, 2021</del> <a href="#">14, 2016</a>	
<del>Demonstrate that 50% of the total drainage area served by the MS4 system is effectively meeting the WLAs for sediment.</del>						<a href="#">March 14, 2026</a>	
<del>Demonstrate that 100% of the total drainage area served by the MS4 system is effectively meeting the WLAs for sediment.</del>							
<b>If pursuing the integrated approach</b> <del>Demonstrate that 25% of the total drainage area served by the MS4 system is effectively meeting the WLAs for sediment.</del>							
<del>Demonstrate that 50% of the total drainage area served by the MS4 system is effectively meeting the WLAs for sediment.</del>							
<del>Demonstrate that 75% of the total drainage area served by the MS4 system is effectively meeting the WLAs for sediment.</del>							

	<p>Demonstrate that 100% of the total drainage area served by the MS4 system is effectively meeting the WLAs for sediment.  <u>Implement a collection and disposal program for OC pesticides and PCBs.</u></p> <p><u>Special Study #1 results, including recommendations for refining the siltation load and wasteload allocations.</u></p> <p><u>Effective date of siltation load allocation and wasteload allocation</u></p> <p><u>Special Study #3: evaluate natural attenuation rates, methods to accelerate attenuation, and examine WLA attainability.</u></p> <p><u>Achieve Final WLAs</u></p>																														
<p><del>Calleguas Creek, Its Tributaries and Mugu Lagoon</del>  <del>Organochlorine Pesticides (OC), Polychlorinated Biphenyls (PCBs), and Siltation</del></p> <p><u>Los Angeles River</u>  <u>Nitrogen Compounds</u></p> <p>Effective Date: March <del>14, 2006</del> <u>18, 2004</u></p> <p>BPA: Attachment A, <u>Chapter 7-8</u>  <del>17, adopted July 7, 2005</del></p> <p>Resolution No. <del>R4-2005-010</del></p> <p><u>03-009 and Resolution No. 03-016</u></p>	<p><b>WLA</b>  <del>WLAs are</del> <u>WLA is</u> held jointly with multiple dischargers.</p> <table border="1" data-bbox="690 730 1563 1323"> <thead> <tr> <th colspan="2"><u>Constituent</u></th> <th><u>Los Angeles River Above Los Angeles – Glendale WRP (LAG)</u></th> <th><u>Los Angeles River Below LAG</u></th> <th><u>Los Angeles Tributaries</u></th> </tr> </thead> <tbody> <tr> <td rowspan="2"><u>Ammonia</u></td> <td><u>One-hour average (mg/L)</u></td> <td><u>4.7</u></td> <td><u>September 14, 2006</u></td> <td><u>10.1</u></td> </tr> <tr> <td><u>Thirty –day average (mg/L)</u></td> <td><u>1.6</u></td> <td><u>Executive Officer Approval of Monitoring Program</u></td> <td><u>2.3</u></td> </tr> <tr> <td><u>NO<sub>3</sub>-N</u></td> <td><u>Thirty-day average (mg/L)</u></td> <td><u>8.0</u></td> <td><u>March 14, 2007</u></td> <td><u>8.0</u></td> </tr> <tr> <td><u>NO<sub>2</sub>-N</u></td> <td><u>Thirty –day average (mg/L)</u></td> <td><u>1.0</u></td> <td><u>1.0</u></td> <td><u>1.0</u></td> </tr> <tr> <td><u>NO<sub>3</sub> –N + NO<sub>2</sub>-N</u></td> <td><u>Thirty –day average (mg/L)</u></td> <td><u>8.0</u></td> <td><u>8.0</u></td> <td><u>8.0</u></td> </tr> </tbody> </table> <p><b>Other</b>  <del>Workplan for OC pesticides and PCBs or an Integrated Calleguas-Creek Watershed OC pesticide and PCBs Monitoring Program.</del></p> <p><del>Initiate OC pesticide, PCBs, and siltation Monitoring Program</del></p> <p><del>Workplan to identify urban, industrial and domestic sources of OC pesticides, PCBs, control methods, and methods to implement collection and disposal.</del></p> <p><del>Special Study #1 Workplan and convene a Science Advisory Panel</del></p> <p><del>Special Study #2 study to identify land area with high OC pesticides and PCBs concentrations and workplan.</del></p>	<u>Constituent</u>		<u>Los Angeles River Above Los Angeles – Glendale WRP (LAG)</u>	<u>Los Angeles River Below LAG</u>	<u>Los Angeles Tributaries</u>	<u>Ammonia</u>	<u>One-hour average (mg/L)</u>	<u>4.7</u>	<u>September 14, 2006</u>	<u>10.1</u>	<u>Thirty –day average (mg/L)</u>	<u>1.6</u>	<u>Executive Officer Approval of Monitoring Program</u>	<u>2.3</u>	<u>NO<sub>3</sub>-N</u>	<u>Thirty-day average (mg/L)</u>	<u>8.0</u>	<u>March 14, 2007</u>	<u>8.0</u>	<u>NO<sub>2</sub>-N</u>	<u>Thirty –day average (mg/L)</u>	<u>1.0</u>	<u>1.0</u>	<u>1.0</u>	<u>NO<sub>3</sub> –N + NO<sub>2</sub>-N</u>	<u>Thirty –day average (mg/L)</u>	<u>8.0</u>	<u>8.0</u>	<u>8.0</u>	<p><del>None Specified</del></p> <p><u>None Specified</u></p> <p><u>March 14, 2007</u></p> <p><u>March 14, 2007</u></p> <p><u>March 14, 2011</u></p> <p><u>March 14, 2014</u></p>
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<u>NO<sub>3</sub> –N + NO<sub>2</sub>-N</u>	<u>Thirty –day average (mg/L)</u>	<u>8.0</u>	<u>8.0</u>	<u>8.0</u>																											

	<p><del>Implement a collection and disposal program for OC pesticides and PCBs.</del></p> <p><del>Special Study #1: results and recommendations</del></p> <p><del>Re-evaluation of Siltation load allocation and WLA</del></p> <p><del>Special Study #3: evaluate natural attenuation rates, methods to accelerate attenuation, and examine WLA attainability.</del></p> <p><del>Submit a Monitoring Workplan to estimate nitrogen loadings from storm drain system.</del></p>	<p><del>March 14, 2015</del></p> <p><del>March 14, 2016</del></p>																
<p><b>Los Angeles River</b> <i>Nitrogen Compounds</i></p> <p><b>Machado Lake</b> <i>Eutrophic, Algae, Ammonia, and Odors (Nutrient)</i></p> <p>Effective Date: <del>March 18, 2004</del><u>11, 2009</u></p> <p>BPA: Attachment A, <del>Chapter 7-829</del></p> <p>Resolution No. <del>03-009</del><u>008-006</u></p>	<p><b>WLAs</b> <del>WLA is held jointly with multiple dischargers.</del></p> <p><b>Interim WLAs</b></p> <table border="1"> <thead> <tr> <th><u>Years After Effective Date</u></th> <th><u>Phosphorus WLAs (mg/L)</u></th> <th><u>Nitrogen (TKN + NO<sub>3</sub>-N + NO<sub>2</sub>-N)</u></th> </tr> </thead> <tbody> <tr> <td><u>At Effective Date<sup>1</sup></u></td> <td><u>1.25</u></td> <td><u>3.50</u></td> </tr> <tr> <td><u>5<sup>2</sup></u></td> <td><u>1.25</u></td> <td><u>2.45</u></td> </tr> <tr> <td><u>9.5 (Final WLAs<sup>3</sup>)</u></td> <td><u>0.10</u></td> <td><u>1.00</u></td> </tr> </tbody> </table> <p><small>1 <u>The compliance point for all effective date interim WLAs is measured in the Lake</u></small>  <small>2 <u>The compliance point for all year 5 interim WLAs is measured as specified in Implementation Plan Section II of Table 7-29.1</u></small>  <small>3 <u>The compliance point for all final WLAs is measured as specified in Implementation Plan Section II of Table 7-29-1.</u></small></p> <p><b>Final WLAs</b></p> <table border="1"> <thead> <tr> <th><u>Total Phosphorus (mg/L)</u></th> <th><u>Total Nitrogen (TLN + NO<sub>3</sub>-N + NO<sub>2</sub>-N) (mg/L)</u></th> </tr> </thead> <tbody> <tr> <td><u>0.1</u></td> <td><u>1.0</u></td> </tr> </tbody> </table> <p><b>Other</b>  <del>Submit a Monitoring Workplan to estimate nitrogen loadings from storm drain system.</del></p> <p><del>Workplan to evaluate effectiveness of nitrogen reductions.</del></p> <p><u>Submit Monitoring and Reporting Program (MRP) Plan</u></p> <p><u>Begin monitoring the approved MRP Plan</u></p> <p><u>TMDL Implementation Plan (including BMPs to address discharges from storm drains)</u></p> <p><u>Begin Implementation of BMPs to address discharges from storm drains, as set forth in TMDL Implementation Plan.</u></p> <p><u>Submit Annual Monitoring Reports</u></p>	<u>Years After Effective Date</u>	<u>Phosphorus WLAs (mg/L)</u>	<u>Nitrogen (TKN + NO<sub>3</sub>-N + NO<sub>2</sub>-N)</u>	<u>At Effective Date<sup>1</sup></u>	<u>1.25</u>	<u>3.50</u>	<u>5<sup>2</sup></u>	<u>1.25</u>	<u>2.45</u>	<u>9.5 (Final WLAs<sup>3</sup>)</u>	<u>0.10</u>	<u>1.00</u>	<u>Total Phosphorus (mg/L)</u>	<u>Total Nitrogen (TLN + NO<sub>3</sub>-N + NO<sub>2</sub>-N) (mg/L)</u>	<u>0.1</u>	<u>1.0</u>	<p><del>None Specified</del></p> <p><del>March 18, 2005</del><u>11, 2009</u></p> <p><del>March 18, 2005</del><u>11, 2014</u></p> <p><u>March 11, 2014</u></p> <p><u>September 11, 2018</u></p> <p><u>March 11, 2010</u></p> <p><u>Sixty days from date of MRP Plan approval.</u></p> <p><u>March 11, 2011</u></p> <p><u>Sixty days from of Implementation Plan approval.</u></p> <p><u>Annually -from date of MRP Plan approval</u></p> <p><u>September 11, 2011</u></p> <p><u>Sixty days from MRP/Implementati on Plan approval.</u></p>
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	<p><a href="#">Alternative mass-based WLA option: MRP and TMDL Implementation Plans</a></p> <p><a href="#">Alternative mass-based WLA option: Begin Monitoring and Implementation Plan</a></p> <p><a href="#">Alternative Mass-based WLAs Annual Monitoring Reports</a></p>	<p><a href="#">Annually from date of MRP/Implementation Plan approval</a></p>		
<p><del>Machado Lake</del> <del>Eutrophic, Algae, Ammonia, and Odors (Nutrient)</del></p> <p><a href="#">Upper Santa Clara River Chloride</a></p> <p>Effective Date: <del>March 11, 2009</del><a href="#">April 6, 2010</a></p> <p>BPA: Attachment <a href="#">AB</a>, Chapter 7-<del>296</del></p> <p>Resolution No. <del>008-006R4-2008-012</del></p>	<p><b>WLA</b></p> <p><del>Interim WLAs for Total Phosphorus (1.25 mg/L) and Total Nitrogen ((3.50 mg/L) is measured in the lake. Chloride = 100 mg/l</del></p> <p><del>5-Year interim WLA for Total Phosphorus (1.25 mg/L)</del></p> <p><del>5-Year interim WLA for Total Nitrogen (2.45 mg/L)</del></p> <p><del>Final WLAs for Total Phosphorus (0.10 mg/L) and Total Nitrogen (1.0 mg/L)</del></p> <p><b>Other</b></p> <p><del>Monitoring and Reporting Program (MRP) Plan</del></p> <p><del>Optional—Special Study #3 workplan</del></p> <p><del>Optional—Special Studies #1 and #2</del></p> <p><del>TMDL Implementation Plan (including BMPs)</del></p> <p><del>Implementation of BMPs (60 days from approval of Implementation Plan)</del></p> <p><del>Annual Monitoring Reports</del></p> <p><del>Optional Special Study #3 Final Report</del></p> <p><del>Alternative mass-based WLA option: MRP and TMDL Implementation Plans</del></p> <p><del>Alternative mass-based WLA option: Monitoring and Implementation Plan</del></p> <p><del>Mass-based WLAs Annual Monitoring Reports</del></p> <p><del>Optional Special Studies Final Reports</del></p>	<p><del>March 11, 2009</del></p> <p><del>March 11, 2014</del></p> <p><del>March 11, 2014</del></p> <p><del>September 11, 2018</del></p> <p><del>March 11, 2010</del><a href="#">April 6, 2010</a></p> <p><del>March 11, 2010</del></p> <p><del>September 11, 2010</del></p> <p><del>March 11, 2011</del></p> <p><del>Sixty days from of Implementation Plan approval.</del></p> <p><del>Annually—from date of MRP Plan approval</del></p> <p><del>September 11, 2011</del></p> <p><del>September 11, 2011</del></p> <p><del>November 11, 2011</del></p> <p><del>September 11, 2012 and annually thereafter</del></p> <p><del>March 11, 2015</del></p>		
<p><del>Upper Santa Clara River Chloride</del> <del>Nitrogen Compounds</del></p> <p>Effective Date: <del>April 6, 2010</del><a href="#">March 18, 2004</a></p>	<p><b>WLA</b></p> <p>Concentration-based WLAs</p> <table border="1" data-bbox="690 1843 1502 1932"> <tr> <td data-bbox="690 1843 868 1932"><del>Reach</del></td> <td data-bbox="868 1843 1502 1932"><del>Concentration-based Conditional WLA for Chloride</del></td> </tr> </table>	<del>Reach</del>	<del>Concentration-based Conditional WLA for Chloride</del>	<p><del>April 6</del></p> <p><a href="#">March 18, 2004</a></p>
<del>Reach</del>	<del>Concentration-based Conditional WLA for Chloride</del>			

BPA: Attachment B,  
 Chapter 7-69

Resolution No. ~~R4-2008-01~~203-011

<u>Watershed Stream Reach</u>	<u>1-Hour (mg/L)</u>	<u>30-day (mg/L)</u>	<u>30-day Average (mg/L)</u>
	<u>Daily Maximum (mg/L) NH<sub>3</sub>-N</u>	<u>3-month Average (mg/L) NH<sub>3</sub>-N</u>	<u>12-month Average (mg/L) NO<sub>3</sub>-N + NO<sub>2</sub>-N</u>
<b>4B3</b>	230.4.2	1172.0	-8.1
<b>5Z</b>	230.5.2	-1.75	1506.8
<b>6</b>	230	-	150

March 18, 2005  
 March 18, 2005 and annually thereafter

**Other**

~~None Specified~~  
 Workplan to estimate ammonia and nitrogen loadings.  
 Annual Progress Reports on the Implementation Plan

**Santa Clara River**  
 Nitrogen Compounds

Calleguas Creek, its Tributaries and Mugu Lagoon  
 Toxicity, Chlorpyrifos, Diazinon

Effective Date: March ~~18, 2004~~14, 2006

BPA: Attachment ~~BA~~,  
 Chapter 7-916

Resolution No. ~~03-011~~ R4-2005-009

**WLA**  
 Concentration-based WLAs

<u>Watershed Stream Reach</u>	<u>1-Hour (mg/L)</u>	<u>30-day (mg/L)</u>	<u>30-day Average (mg/L)</u>
	<u>NH<sub>3</sub>-N</u>	<u>NH<sub>3</sub>-N</u>	<u>NO<sub>3</sub>-N + NO<sub>2</sub>-N</u>
<b>3</b>	4.2	2.0	6.8
<b>7</b>	5.2	1.75	6.8

~~Interim WLAs:~~  
 March 18, 2004  
 14, 2006  
**Final WLAs:**  
 March 14, 2008

**Toxicity:** 1.0 TU<sub>c</sub>

**Chlorpyrifos**  
 Interim WLA (4 day) - 0.45 µg/L  
 Final WLA (4 day) - 0.014 µg/L

**Diazinon**  
 Interim WLA (Acute, 1-hour): 1.73 µg/L  
 Interim WLA (Chronic, 4 day): 0.556 µg/L  
 Final WLA (Acute and Chronic): 0.10 µg/L

**Other**

~~Workplan to estimate ammonia and nitrogen loadings.~~  
 Annual Progress Reports on the Implementation Plan  
 Submit workplan for integrated Calleguas Creek Monitoring Program for approval by EO.  
 Initiate monitoring program  
 Investigate the pesticides that will replace Diazinon and Chlorpyrifos in the urban environment, their impact on receiving waters, and potential control measures.  
 Special Study #2 - Consider results of monitoring of sediment concentrations by source/land use type through special study required in the OC Pesticide, PCB, and siltation TMDL Implementation Plan. If the special study is not completed through the OC Pesticides, PCBs and Siltation TMDL no consideration is necessary.

September 14, 2006  
 March ~~18,~~ 2005  
 14, 2006  
 March 18, 2005 and annually thereafter  
 14, 2008  
 6 months after completion of CCW OC pesticides, PCBs and Siltation TMDL sediment concentrations special study.  
 March 14, 2009  
 6 months after completion of

	<p><u>Develop and implement collection program for Diazinon and Clorpyrifos and an educational program.</u></p> <p><u>Special Study #3 - Calculation of sediment transport rates in CCW. Consider findings of transport rates developed through the OC Pesticide, PCB, and siltation TMDL.</u></p>	<p><u>CCW OC Pesticides, PCBs and Siltation TMDL</u></p>
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**Region 5 – Central Valley Regional Water Board**

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
<p><b>Cache Creek, Bear Creek, Sulphur Creek, and Harley Gulch</b> <i>Mercury</i></p> <p>Effective Date: February 7, 2007</p> <p>BPA:</p>	<p><b>WLA</b> None Specified</p> <p><b>Other</b> Develop and implement a plan to describe the management practices that will be implemented to control erosion.</p> <p>Implement best management practices to control erosion in mercury-enriched areas; conduct pre-project water quality and sediment assessments to identify areas with enriched mercury; and describe additional management practices that will be implemented in these areas.</p>	<p>None Specified</p> <p>February 7, 2009</p> <p>On-going</p>

<b>TMDL</b>	<b>WLAs/Deliverables/Action Required</b>	<b>Compliance Date Due Date</b>
<p>Attachment I – Amending Basin Plan for Sacramento &amp; San Joaquin River Basin</p> <p>Resolution No. R5-2005-0146</p>		
<p><b>Clear Lake Nutrients</b></p> <p>Effective Date: September 21, 2007</p> <p>BPA: Attachment I</p> <p>Resolution No. R5-2006-0060</p>	<p><b>WLA</b> WLA for phosphorus - 100 kg/yr</p> <p><b>Other</b> Conduct surveillance monitoring to estimate nutrient loadings from activities in the watershed using either water quality monitoring or computer or a combination of the two.</p> <p>Develop and implement a plan to: 1) collect the information needed to determine what factors are important to controlling nuisance blooms and to 2) recommend what control strategy should be implemented.</p>	<p>June 2018</p> <p>On-going</p> <p>June 19, 2008</p>
<p><b>Sacramento-San Joaquin Delta Methyl mercury</b></p> <p>Effective Date: Pending</p> <p>Resolution No. R5-2010-0043</p>	<p><b>WLA</b> WLA is held jointly with multiple dischargers.</p>	<p>2030</p>

**Region 6 – ~~Lahontan~~Lahontan Regional Water Board**

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
<p><b>Truckee River Sediment</b></p> <p>Effective Date: September 16, 2009</p> <p>BPA: WQ Amendment May 2008</p> <p>Resolution No. 2009-0028</p>	<p><b>WLA</b>  <del>None Specified</del> <u>4,936 tons/year of sediment (combined WLA for three MS4 permittees – Caltrans, Placer County, and Town of Truckee)</u></p> <p><b>Other</b>            Track and report road abrasives and de-icing agents used and recovered in accordance with Attachment V (Part <del>5-4</del>) Lahontan Region, #8, <del>#11</del>, and #12 of this Order.</p> <p>Identify and prioritize legacy site restoration and BMP implementation</p> <p>Coordinate with Truckee and Placer County to develop <u>and implement</u> a municipal monitoring program-</p> <p><del>The Department and Lake Tahoe basin municipalities that addresses its discharges to develop and implement comprehensive Pollutant Load Reduction Plans (PLRPs) surface waters.</del></p>	<p><del>None Specified</del> <u>September 16, 2029</u></p> <p>January 15, each year <del>As a</del> part of the Annual Lahontan Region Report</p> <p><del>None Specified</del> <u>January 15, each year as part of the Annual Lahontan Region Report</u></p> <p><del>Annually</del></p> <p><del>None Specified</del> <u>Per direction of the Executive Officer</u></p>

<p><u>Lake Tahoe Sediment and Nutrients</u></p> <p>Effective Date: Pending</p> <p>BPA: WQ Amendment May 2008</p> <p>Resolution No. 2009-0028</p>	<p><b>WLA</b>  <u>Pollutant Load Allocations – Expressed as a Percent Reduction from the Lake Tahoe TMDL Baseline Condition</u></p>													<p>Each five year permit term will include pollutant load reduction requirements consistent with the <u>Table</u>.</p>
<u>Baseline Load</u>		<u>Milestone Load Reductions</u>											<u>Standard Attainment</u>	
<u>Fine Sediment Particles (less than 16 micrometers)</u>														
<u>Basin Wide Fine Sediment Particle Load (# of particles)</u>	<u>% of Basin Wide Load</u>	<u>5 yrs</u>	<u>10 yrs</u>	<u>15 yrs</u>	<u>20 yrs</u>	<u>25 yrs</u>	<u>30 yrs</u>	<u>35 yrs</u>	<u>40 yrs</u>	<u>45 yrs</u>	<u>50 yrs</u>	<u>55 yrs</u>	<u>60 yrs</u>	<u>65 yrs</u>
3.5E+20	72%	10%	21%	34%	38%	41%	45%	48%	52%	55%	59%	62%	66%	71%
<u>Nitrogen</u>														
<u>Basin Wide Nitrogen Load (MT/yr)</u>	<u>% of Basin Wide Load</u>	<u>5 yrs</u>	<u>10 yrs</u>	<u>15 yrs</u>	<u>20 yrs</u>	<u>25 yrs</u>	<u>30 yrs</u>	<u>35 yrs</u>	<u>40 yrs</u>	<u>45 yrs</u>	<u>50 yrs</u>	<u>55 yrs</u>	<u>60 yrs</u>	<u>65 yrs</u>
63	19%	8%	14%	19%	22%	25%	28%	31%	34%	37%	40%	43%	46%	50%
<u>Phosphorus</u>														
<u>Basin Wide phosphorus Load (MT/yr)</u>	<u>% of Basin Wide Load</u>	<u>5 yrs</u>	<u>10 yrs</u>	<u>15 yrs</u>	<u>20 yrs</u>	<u>25 yrs</u>	<u>30 yrs</u>	<u>35 yrs</u>	<u>40 yrs</u>	<u>45 yrs</u>	<u>50 yrs</u>	<u>55 yrs</u>	<u>60 yrs</u>	<u>65 yrs</u>

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	<u>18</u>	<u>47 %</u>	<u>7 %</u>	<u>14 %</u>	<u>21 %</u>	<u>23 %</u>	<u>26 %</u>	<u>28 %</u>	<u>31 %</u>	<u>33 %</u>	<u>36 %</u>	<u>38 %</u>	<u>41 %</u>	<u>44 %</u>	<u>46 %</u>	
<u>Urban upland load reduction requirements constitute waste load allocations for the California Department of Transportation.</u>																
<p><b><u>Other</u></b> <u>Submit jurisdiction-specific 2004 baseline load estimates for fine sediment particles, phosphorus, and nitrogen to the Regional Board for review/approval.</u></p> <p><u>Develop, implement, and maintain a Pollutant Load Reduction Plan (PLRP) to guide stormwater activities and project implementation.</u></p>																
															<u>Each five year permit term</u>	

**Region 7 – Colorado River Basin Regional Water Board**

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date						
<p><b>Coachella Valley Storm Water Channel Bacterial Indicators</b></p> <p>Effective Dates: Pending</p> <p>BPA: June 17, 2010</p> <p>Resolution No. R7-2010-0028</p>	<p><b>WLA</b> Bacterial Indicator Water Quality Objectives</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Parameter</th> <th style="width: 33%;">30-Day Geometric<sup>a</sup> Mean</th> <th style="width: 33%;">Maximum Instantaneous</th> </tr> </thead> <tbody> <tr> <td>E. Coli</td> <td>MPN ≤ 126/100 (ml)</td> <td>400 MPN/100 ml</td> </tr> </tbody> </table> <p><sup>a</sup> Based on a minimum of no less than 5 samples equally spaced over a 30-day period.</p> <p><b>Other</b> Develop and submit two-year bacterial indicator water quality monitoring program and a Quality Assurance Project Plan (QAPP) for Regional Board Executive review and approval.</p> <p>Monitor CVSC for bacteria loading.</p>	Parameter	30-Day Geometric <sup>a</sup> Mean	Maximum Instantaneous	E. Coli	MPN ≤ 126/100 (ml)	400 MPN/100 ml	<p>None Specified</p> <p>90 days after USEPA TMDL approval</p> <p><del>90 days after USEPA TMDL approval and quarterly thereafter for 2 years.</del></p> <p><a href="#">Begin monitoring after approval of the CVSC Bacterial Plan by the Regional Water Board Executive Officer</a></p>
Parameter	30-Day Geometric <sup>a</sup> Mean	Maximum Instantaneous						
E. Coli	MPN ≤ 126/100 (ml)	400 MPN/100 ml						

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**Region 8 – Santa Ana Basin Regional Water Board**

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date						
<p><b>Lake Elsinore and Canyon Lake</b>  <i>Nutrients</i></p> <p>Effective Date: September 30, 2005</p> <p>BPA: Attachment to Resolution <del>_____</del> No. R8-2004-0037</p> <p>Resolution No. R8-2006-0031</p> <p>Resolution No. R8-2007-0083</p>	<p><del>WLA</del>  <del>WLA is held jointly with multiple dischargers.</del>  <u>WLAs</u></p> <p><u>Lake Elsinore WLAs</u></p> <table border="1" data-bbox="310 422 1143 590"> <thead> <tr> <th data-bbox="310 422 737 506"><u>Final Phosphorus WLA (kg/yr)</u></th> <th data-bbox="742 422 1143 506"><u>Final Total Nitrogen WLA (kg/yr)</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="310 512 737 548"><u>Not finalized</u></td> <td data-bbox="742 512 1143 548"><u>Not finalized</u></td> </tr> <tr> <td data-bbox="310 554 737 590"><u>Not finalized</u></td> <td data-bbox="742 554 1143 590"><u>Not finalized</u></td> </tr> </tbody> </table> <p><u>Canyon Lake WLAs</u>  <u>The Department's allocations are part of the overall urban allocation.</u></p> <p><b>Other</b></p> <p><b>Sediment Nutrient Reduction Strategy:</b>  Phase 2 Alternatives  O &amp; M Agreement for Fishery Management Program  O &amp; M Agreement for Aeration and Mixing Systems  Phase 2 Project Plans  Complete Phase 2 Project Implementation  Annual Report – Implementation of In-lake and Watershed Monitoring Programs</p> <p><b>Model Update Plan</b>  Linkage Analysis Study  Watershed Source Loading Study  Model Evaluation  Construct/Calibrate Model  Conduct Model Scenarios  Model Update Final Report</p> <p>Comprehensive Nutrient Reduction Plan (CNRP)</p> <p>Commence Phase 2 LE/CL TMDL Monitoring Program</p> <p>Annual Report summarizing the Watershed-Wide Nutrient Water Quality Monitoring Program</p> <p>Begin Joint TMDL Monitoring Program</p>	<u>Final Phosphorus WLA (kg/yr)</u>	<u>Final Total Nitrogen WLA (kg/yr)</u>	<u>Not finalized</u>	<u>Not finalized</u>	<u>Not finalized</u>	<u>Not finalized</u>	<p><del>None Specified</del></p> <p><u>December 31, 2020</u></p> <p><u>December 31, 2020</u></p> <p>December 31, 2010  December 31, 2010  December 31, 2010  June 30, 2011  December 31, 2014  August 31 of every year</p> <p>August 31, 2010  August 31, 2010  December 31, 2010  June 30, 2011  August 31, 2011  November 30, 2011</p> <p>December 31, 2011</p> <p>December 31, 2011</p> <p>August 15 of each Year</p> <p>December 31, 2010</p>
<u>Final Phosphorus WLA (kg/yr)</u>	<u>Final Total Nitrogen WLA (kg/yr)</u>							
<u>Not finalized</u>	<u>Not finalized</u>							
<u>Not finalized</u>	<u>Not finalized</u>							
<p><b>Big Bear Lake</b>  <i>Nutrients for Dry Hydrological Conditions</i></p> <p>Effective Date: September 25, 2007</p> <p>BPA: Attachment to Resolution <del>_____</del> No. R8-2006-0023</p>	<p><del>WLA</del>  WLA is held jointly with multiple dischargers. <u>The Department is to demonstrate compliance with the WLA.</u></p> <p><b>Other</b></p> <p>Annual Reports summarizing data collected for the year and evaluating compliance with WLAs and numeric targets.</p> <p>Submit collectively or in collaboration with the Big Bear TMDL Task Force for the Regional Board approval a plan to evaluate the applicability and feasibility of various in-lake treatment technologies to control noxious and nuisance aquatic plants.</p> <p>Submit Plan and Schedule for updating the existing Big Bear Lake Watershed Nutrient Model.</p>	<p><del>None Specified</del>  <u>December 31, 2015</u></p> <p>February 15 of each year</p> <p>February 26, 2010</p>						



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**Region 9 – San Diego Regional Water Board**

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date																		
<p><b>Chollas Creek</b>  <i>Diazinon</i></p> <p>Effective Date:  November 3, 2003</p> <p>BPA:  Attachment A to  <del>Resolution</del>  No. R9-2002-0123</p> <p>Resolution No.  Investigation  Order R9-2004-0277</p>	<p><b>WLA</b></p> <table border="1" data-bbox="328 338 1078 562"> <thead> <tr> <th><a href="#">Chollas Creek Diazinon WLAs Exposure Duration</a></th> <th><a href="#">Numeric Targets (µg/L)</a></th> <th><a href="#">Margin of Safety (µg/L)</a></th> <th><a href="#">Waste Load Allocation (µg/L)</a></th> </tr> </thead> <tbody> <tr> <td>Acute</td> <td>0.08</td> <td>0.008</td> <td>0.072</td> </tr> <tr> <td>Chronic</td> <td>0.05</td> <td>0.005</td> <td>0.045</td> </tr> </tbody> </table> <table border="1" data-bbox="328 617 1161 758"> <thead> <tr> <th><a href="#">Exposure Duration</a></th> <th><a href="#">Waste Load Allocation (µg/L)</a></th> </tr> </thead> <tbody> <tr> <td>Acute</td> <td>0.072</td> </tr> <tr> <td>Chronic</td> <td>0.045</td> </tr> </tbody> </table> <p><a href="#">The WLAs are shared with other municipal dischargers in the watershed and shall not be exceeded more than 1 time in any 3-year period.</a></p> <p><a href="#">If the WLAs are violated in Chollas Creek in more than one sample in any three consecutive years, Caltrans, along with other municipal dischargers, shall submit a report that either 1) documents compliance with the WLA through additional sampling of the urban runoff discharge, or 2) demonstrates, using modeling or other technical or scientific basis, the effectiveness of additional BMPs that will be implemented to achieve the WLAs and 3) an implementation schedule.</a></p> <p><b>Other</b>  <del>Develop and implement a monitoring plan</del></p> <p><del>Prepare and Submit Annual Effectiveness Report and Annual Monitoring Report (reporting period October 1 through September 30)</del></p> <p><del>Municipal Copermitees to perform activities to reduce diazinon discharges pursuant to the MS4 permit and Water Code Section 13267, comply with MS4 permit and waste discharge prohibitions</del></p>	<a href="#">Chollas Creek Diazinon WLAs Exposure Duration</a>	<a href="#">Numeric Targets (µg/L)</a>	<a href="#">Margin of Safety (µg/L)</a>	<a href="#">Waste Load Allocation (µg/L)</a>	Acute	0.08	0.008	0.072	Chronic	0.05	0.005	0.045	<a href="#">Exposure Duration</a>	<a href="#">Waste Load Allocation (µg/L)</a>	Acute	0.072	Chronic	0.045	<p><del>None Specified</del></p> <p><a href="#">November 3, 2010</a></p> <p><del>30 days after TMDL effective date</del></p> <p><del>January 31— Annually</del></p> <p><del>On-going</del>  <a href="#">Compliance Date to be determined when there is an Exceedance of the WLA</a></p>
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<p><b>Rainbow Creek</b>  <i>Total Nitrogen and Total Phosphorus</i></p> <p>Effective Date:  March 22, 2006</p> <p>BPA: Attachment A to Resolution  <del>No. R9-</del>  2005-0036</p> <p>Resolution No.  R9-2007-0036</p>	<p><b>WLA</b></p> <p><a href="#">Rainbow Creek WLAs for Highway Runoff</a></p> <table border="1" data-bbox="328 1398 1089 1619"> <thead> <tr> <th><a href="#">Nitrogen WLA (kg N/yr)</a></th> <th><a href="#">Phosphorus WLA (kg N/yr)</a></th> </tr> </thead> <tbody> <tr> <td>118</td> <td>11</td> </tr> <tr> <td>90</td> <td>8</td> </tr> <tr> <td>59</td> <td>5</td> </tr> <tr> <td>49</td> <td>5</td> </tr> </tbody> </table> <p><b>Other</b>  <del>Prepare and submit an Implementation Monitoring Plan Report (reporting period October 1 through September 30)</del></p> <p><a href="#">Implement Water Quality Monitoring Plan and submit annual progress reports detailing progress made on attaining the nutrient WLAs in Rainbow Creek (upon issuance of investigative Order by the San Diego Regional Board)</a></p>	<a href="#">Nitrogen WLA (kg N/yr)</a>	<a href="#">Phosphorus WLA (kg N/yr)</a>	118	11	90	8	59	5	49	5	<p>December 31, 2009</p> <p>December 31, 2013</p> <p>December 31, 2017</p> <p>December 31, 2021</p> <p><del>January 31 of the year following the TMDL effective date</del></p> <p><del>On-going</del></p> <p><del>Annually on January 31</del></p>								
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	<p><del>Submit Annual Monitoring Reports (reporting period October 1 through September 30)</del></p>	<p><del>April 1 of each year until the nutrient water quality objectives are attained in Rainbow Creek.</del></p>																																															
<p><b>Chollas Creek</b> Dissolved Copper, Lead and Zinc</p> <p>Effective Date: December 18, 2008</p> <p>BPA: Attachment A to Resolution No. R9-2007-0043</p> <p>Resolution No. R9-2007-0036</p>	<p><b>WLA</b></p> <p><b>Chollas Creek Interim Goals for <del>achieving</del> Achieving WLAs</b></p> <p align="center"><del>Allowable Exceedance of the WLAs</del> <del>(allowable percentage above)</del></p> <table border="1"> <thead> <tr> <th><del>Compliance Year</del></th> <th><del>Copper</del></th> <th><del>Lead</del></th> <th><del>Zinc</del></th> </tr> </thead> <tbody> <tr> <td><del>1</del></td> <td><del>100%</del></td> <td><del>100%</del></td> <td><del>100%</del></td> </tr> <tr> <td><del>10</del></td> <td><del>20%</del></td> <td><del>2.0%</del></td> <td><del>20%</del></td> </tr> <tr> <td><del>20</del></td> <td><del>0%</del></td> <td><del>0%</del></td> <td><del>0%</del></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th rowspan="2"><u>Compliance Year</u></th> <th colspan="3"><u>Allowable Exceedance of the WLAs (allowable percentage above)</u></th> </tr> <tr> <th><u>Copper</u></th> <th><u>Lead</u></th> <th><u>Zinc</u></th> </tr> </thead> <tbody> <tr> <td><u>1</u></td> <td><u>100 %</u></td> <td><u>100 %</u></td> <td><u>100 %</u></td> </tr> <tr> <td><u>10</u></td> <td><u>20 %</u></td> <td><u>2.0%</u></td> <td><u>20 %</u></td> </tr> <tr> <td><u>20</u></td> <td><u>0%</u></td> <td><u>0%</u></td> <td><u>0%</u></td> </tr> </tbody> </table> <p><b>Numeric Targets for Dissolved Metals in Chollas Creek</b></p> <table border="1"> <thead> <tr> <th><u>Metal</u></th> <th><u>Numeric Target for Acute Conditions: Criteria Maximum Concentration</u></th> <th><u>Numeric Target for Chronic Conditions: Criteria Continuous Concentration</u></th> </tr> </thead> <tbody> <tr> <td><u>Copper</u></td> <td><math>(1) * (0.96) * \{e^{[0.9422 * \ln(\text{hardness}) - 1.700]}\}</math></td> <td><math>(1) * (0.96) * \{e^{[0.8545 * \ln(\text{hardness}) - 1.702]}\}</math></td> </tr> <tr> <td><u>Lead</u></td> <td><math>(1) * \{1.46203 - [0.145712 * \ln(\text{hardness})]\} * \{e^{[1.273 * \ln(\text{hardness}) - 1.460]}\}</math></td> <td><math>(1) * \{1.46203 - [0.145712 * \ln(\text{hardness})]\} * \{e^{[1.273 * \ln(\text{hardness}) - 4.705]}\}</math></td> </tr> <tr> <td><u>Zinc</u></td> <td><math>(1) * (0.978) * \{e^{[0.8473 * \ln(\text{hardness}) + 0.884]}\}</math></td> <td><math>(1) * (0.986) * \{e^{[0.8473 * \ln(\text{hardness}) + 0.884]}\}</math></td> </tr> </tbody> </table> <p><small>Hardness is expressed as milligrams per liter. Calculated concentrations should have two significant figures [40 CFR 131.38(b)(2)]. The natural log and exponential functions are represented as "ln" and "e," respectively.</small></p> <p><small>The WLAs are shared with other municipal dischargers in the watershed. WLAs shall be calculated as 90% of the numeric targets. Note numeric target and WLAs are hardness-specific.</small></p> <p><b>Other</b> Submit Annual Progress Report</p>	<del>Compliance Year</del>	<del>Copper</del>	<del>Lead</del>	<del>Zinc</del>	<del>1</del>	<del>100%</del>	<del>100%</del>	<del>100%</del>	<del>10</del>	<del>20%</del>	<del>2.0%</del>	<del>20%</del>	<del>20</del>	<del>0%</del>	<del>0%</del>	<del>0%</del>	<u>Compliance Year</u>	<u>Allowable Exceedance of the WLAs (allowable percentage above)</u>			<u>Copper</u>	<u>Lead</u>	<u>Zinc</u>	<u>1</u>	<u>100 %</u>	<u>100 %</u>	<u>100 %</u>	<u>10</u>	<u>20 %</u>	<u>2.0%</u>	<u>20 %</u>	<u>20</u>	<u>0%</u>	<u>0%</u>	<u>0%</u>	<u>Metal</u>	<u>Numeric Target for Acute Conditions: Criteria Maximum Concentration</u>	<u>Numeric Target for Chronic Conditions: Criteria Continuous Concentration</u>	<u>Copper</u>	$(1) * (0.96) * \{e^{[0.9422 * \ln(\text{hardness}) - 1.700]}\}$	$(1) * (0.96) * \{e^{[0.8545 * \ln(\text{hardness}) - 1.702]}\}$	<u>Lead</u>	$(1) * \{1.46203 - [0.145712 * \ln(\text{hardness})]\} * \{e^{[1.273 * \ln(\text{hardness}) - 1.460]}\}$	$(1) * \{1.46203 - [0.145712 * \ln(\text{hardness})]\} * \{e^{[1.273 * \ln(\text{hardness}) - 4.705]}\}$	<u>Zinc</u>	$(1) * (0.978) * \{e^{[0.8473 * \ln(\text{hardness}) + 0.884]}\}$	$(1) * (0.986) * \{e^{[0.8473 * \ln(\text{hardness}) + 0.884]}\}$	<p>December 18, 2009 December 18, 2018 December 18, 2028</p> <p>April 1 of each year and Annually thereafter</p> <p><u>Annually</u></p>
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REVISED – August 18, 2011

TMDL	WLAs/Deliverables/Action Required							Compliance Date Due Date
	<a href="#">San Clemente HA (901.30)</a>	335	0	635	0	13,534	0	<p align="center"><a href="#">October 4, 2012</a></p> <p align="center"><a href="#">As described in the BLRPs or CLRPs</a></p>
<a href="#">San Luis Rey HU (901.00)</a>	1,513	0	2,397	0	54,508	0		
<a href="#">San Marcos HA (904.50)</a>	8	0	26	0	533	0		
<a href="#">San Dieguito HU (905.50)</a>	1,310	0	2,288	0	47,969	0		
<a href="#">Miramar Reservoir HA (906.10)</a>	0	0	0	0	9	0		
<a href="#">Scripps HA (906.30)</a>	0	0	0	0	0	0		
<a href="#">Tecolote HA (906.5)</a>	553	0	1,266	0	27,095	0		
<a href="#">Mission San Diego/Santee HSAs (907.11 and 907.12)</a>	1,009	0	2,430	0	53,141	0		
<a href="#">Chollas HAS (908.22)</a>	892	0	2,062	0	45,652	0		
<p><a href="#">The WLAs are shared with other municipal dischargers in the watersheds.</a></p> <p><b>Other</b>                      Bacteria <a href="#">Load Reduction Plan (BLRP)</a> or Comprehensive Load Reduction Plan (CLRP) <a href="#">acceptable to the San Diego Water Board.</a></p> <p><a href="#">Progress reports submitted as described in BLRPs or CLRPs and may be submitted jointly with other municipal dischargers.</a></p> <p><del>Alternative Compliance (TMDL Implementation Milestones)</del></p>								

<p><b>Tijuana River and Estuary Trash &amp; Sediment</b>  <i>Solids, Trash, Turbidity</i></p> <p>Effective Date: Pending</p> <p>BPA: Attachment TMDL &amp; Implementation Plan</p> <p>Resolution No:</p>	<p><del>WLA</del>                      Annual WLAs for Freeway:                      Trash: 12.1 ton/year                      Sediment: 11.3 ton/year</p> <p><b>Other</b>                      None Specified</p>	<p>None Specified</p> <p>None Specified</p>
<p><b>Los Penasquitos Lagoon Sedimentation</b>  <i>Sedimentation/Siltation</i></p> <p>Effective Date: Pending</p> <p>BPA: Attachment TMDL &amp; Implementation Plan</p> <p>Resolution No:</p>	<p><del>WLA</del>                      WLA is held jointly with multiple dischargers.</p>	<p>None Specified</p>

<b>TMDL</b>	<b>WLAs/Deliverables/Action Required</b>	<b>Compliance Date Due Date</b>
Resolution No. Investigative Order R9-2006-0076		



REVISED – August 18, 2011  
Attachment IVb – EPA Established TMDLs

**R1- North Coast Regional Water Board**

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
<p><b>Albion River Sediment</b></p> <p>Effective Date: <del>November 29, 2004</del> (EPA TMDL is Dec December 2001)</p> <p>BPA: <a href="#">USEPA Established</a></p> <p>Resolution Nos. <del>R1-2004-0087 and R1-2005-0013.</del></p>	<p><b>WLA</b> WLA for point sources is set at zero <del>not increase.</del></p> <p><b>Other</b> <a href="#">Sediment Load Allocation : Road surface erosion - 16 tons/mi<sup>2</sup>/yr</a></p> <p>Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region.</p>	<p>None Specified</p> <p><a href="#">December 2001</a></p> <p>Annual Report</p>
<p><b>Big River Sediment</b></p> <p>Effective Date: <del>November 29, 2004</del> December 2001</p> <p>BPA: <a href="#">USEPA Established</a></p> <p>Resolution Nos. <del>R1-2004-0087 and R1-2005-0013.</del></p>	<p><b>WLA</b> WLA for point sources is set at zero <del>not increase.</del></p> <p><b>Other</b> <a href="#">Sediment Load Allocation: Road surface erosion: 12 tons/mi<sup>2</sup>/yr. Road-related landslides: 20 tons/mi<sup>2</sup>/yr.</a></p> <p>Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region.</p>	<p>None Specified</p> <p><a href="#">December 2001</a></p> <p>Annual Report</p>
<p><b>Eel River, Lower HA Sediment and Temperature</b></p> <p>Effective Date: <del>November 29, 2004</del> December 18, 2007</p> <p>BPA: <a href="#">USEPA Established</a></p> <p>Resolution Nos. <del>R1-2004-0087 and R1-2005-0013.</del></p>	<p><b>WLA</b> <del>WLA is held jointly with multiple dischargers.</del> <b>Temperature:</b> <a href="#">Zero net Increase in receiving water temperature</a></p> <p><b>Sediment:</b> <a href="#">Waste Load Allocation (WLA) is expressed as equivalent to the Load Allocations (LA).</a></p> <p><a href="#">Episodic road sediment sources - 9 tons/mi<sup>2</sup>/yr.</a> <a href="#">Chronic road sediment sources - 17 tons/mi<sup>2</sup>/yr.</a></p> <p><b>Other</b> Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region.</p>	<p><del>None Specified</del> <a href="#">December 18, 2007</a></p> <p><a href="#">December 18, 2007</a> <a href="#">December 18, 2007</a></p> <p>Annual Report</p>
<p><b>Eel River, Middle Fork, Eden Valley and Round Valley HSAs Sediment and Temperature</b></p> <p>Effective Date: <del>November 29, 2004</del> December 2003</p>	<p><b>WLA</b> <del>None Specified</del> <a href="#">Sediment: Management –related sediment sources expressed by subwatershed in Table 7 of the Middle Fork Eel River Total Maximum Daily Loads for Temperature and Sediment.</a></p> <p><b>Other</b> Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region.</p>	<p><del>None Specified</del> <a href="#">December 2003</a></p> <p>Annual Report</p>

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
<p>BPA: <a href="#">USEPA Established</a></p> <p>Resolution Nos. <del>R1-2004-0087 and R1-2005-0013.</del></p>		
<p><b>Eel River , Middle Main HA</b> <a href="#">Sediment and Temperature</a></p> <p>Effective Date: <del>November 29, 2004</del> <a href="#">December 2005</a></p> <p>BPA: <a href="#">USEPA Established</a></p> <p>Resolution Nos. <del>R1-2004-0087 and R1-2005-0013.</del></p>	<p><b>WLA</b> <a href="#">Sediment:</a> Waste <a href="#">load</a> allocation is set at zero <del>not increase.</del></p> <p><b>Other</b> <a href="#">Sediment Load Allocations:</a> Road-related large features: 40 tons/mi<sup>2</sup>/yr. Road-related small features: 60 tons/mi<sup>2</sup>/yr.</p> <p><a href="#">Temperature Load Allocations:</a> 66% average shade for all tributary stream segments.</p> <p>Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region.</p>	<p><del>None Specified</del> <a href="#">December 2005</a></p> <p><a href="#">December 2005</a></p> <p><a href="#">December 2005</a></p> <p>Annual Report</p>
<p><b>Eel River , North Fork HA</b> <a href="#">Sediment and Temperature</a></p> <p>Effective Date: <del>November 29, 2004</del> <a href="#">December 30, 2002</a></p> <p>BPA: <a href="#">USEPA Established</a></p> <p>Resolution Nos. <del>R1-2004-0087 and R1-2005-0013.</del></p>	<p><b>WLA</b> <del>Waste allocation</del><a href="#">Temperature :</a> <a href="#">The WLA</a> is set at zero <del>not increase.</del></p> <p><a href="#">Sediment:</a> Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region.</p>	<p><del>None Specified</del> <a href="#">December 30, 2002</a></p> <p>Annual Report</p>
<p><b>Eel River, South Fork HA</b> <a href="#">Sediment and Temperature</a></p> <p>Effective Date: <del>November 29, 2004</del> <a href="#">December 16, 1999</a></p> <p>BPA: <a href="#">USEPA Established</a></p> <p>Resolution Nos. <del>R1-2004-0087 and R1-2005-0013.</del></p>	<p><b>WLA</b> <a href="#">Temperature:</a> <a href="#">None Specified</a></p> <p><a href="#">Sediment:</a> The WLA is set at zero <del>not increase</del>as there are no permitted point sources of sediment discharge to the watershed.</p> <p><b>Other</b> Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region.</p>	<p><del>None Specified</del> <a href="#">December 16, 1999</a></p> <p><a href="#">December 16, 1999</a></p> <p>Annual Report</p>
<p><b>Eel River, Upper Main HA</b> <a href="#">Sediment and Temperature</a></p>	<p><b>WLA</b> <a href="#">Temperature:</a> <a href="#">The WLA</a> is set at zero <del>not increase.</del></p> <p><a href="#">Sediment:</a> Road-related sources: 14 tons/mi<sup>2</sup>/yr</p>	<p><del>None Specified</del> <a href="#">December 29, 2004</a></p>

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
<p>Effective Date: <del>November</del><a href="#">December</a> 29, 2004</p> <p>BPA: <a href="#">USEPA Established</a></p> <p>Resolution Nos. <del>R1- 2004-0087 and R1- 2005-0013.</del></p>	<p><b>Other</b> Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region.</p>	<p><a href="#">December 29, 2004</a></p> <p>Annual Report</p>
<p><del>Garcia</del><a href="#">Gualala</a> <b>River</b> Sediment</p> <p>Effective Date: <del>March 16, 1998</del></p> <p><del>BPA: 2001 Action Plan for the Garcia River Watershed Sediment TMDL</del><a href="#">December 2001</a></p> <p><del>BPA: USEPA Established</del></p> <p>Resolution Nos. <del>R1- 2001-072.</del></p>	<p><b>WLA</b> <del>None Specified</del> <a href="#">The WLA is set at zero.</a></p> <p><b>Other</b> <del>Comply with sediment waste discharge prohibitions</del></p> <p><del><b>Sediment Load Allocation:</b> Road-related landslides: 56 tons/mi<sup>2</sup>/yr. Road stream crossing failures: 5 tons/mi<sup>2</sup>/yr. Road-related gullies: 8 tons/mi<sup>2</sup>/yr. Road-related surface erosion: 7 tons/mi<sup>2</sup>/yr.</del></p> <p><a href="#">Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region.</a></p>	<p><del>None Specified</del><a href="#">December 2001</a></p> <p><del>January 3, 2002</del></p> <p><a href="#">December 2001</a></p> <p><a href="#">Annual Report</a></p>
<p><del>Gualala</del><a href="#">Lost</a> <b>River</b> Sediment</p> <p><a href="#">Nitrogen and Biochemical oxygen Demand to address Dissolved Oxygen and pH Impairments</a></p> <p>Effective Date: <del>November 29, 2004</del><a href="#">December 30, 2008</a></p> <p>BPA: <a href="#">Action Plan for Klamath River TMDLs Addressing Temperature, Dissolved Oxygen, Nutrient, and Microcystin Impairments in the Klamath River in California and Lost River Implementation Plan.</a></p> <p>Resolution Nos. <del>6.</del></p>	<p><b>WLA</b> <del>The WLA is set at zero not increase</del><a href="#">Dissolved Inorganic Nitrogen: Reach 1: 0.1 metric tons/yr or 0.3 average kg/day. Reach 2: 0.1 metric tons/yr or 0.3 average kg/day. Reach 3: 0.1 metric tons/yr or 0.3 average kg/day.</a></p> <p><a href="#">Carbonaceous Biochemical Oxygen Demand: Reach 1: 0.2 metric tons/yr or 0.5 average kg/day. Reach 2: 0.2 metric tons/yr or 0.5 average kg/day. Reach 3: 0.2 metric tons/yr or 0.5 average kg/day.</a></p> <p><b>Other</b> Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region.</p> <p><a href="#">Assessment of fish migration barriers and potential barriers. Develop priority ranking and time schedule for modifying barriers.</a></p>	<p><del>None Specified</del> <a href="#">December 30, 2008</a></p> <p><a href="#">December 30, 2008</a></p> <p>Annual Report</p> <p><a href="#">Annual Report</a></p>

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date																																				
<p>R1-2004-0087 and R1-2005-0013 <a href="#">2010-0026</a></p>																																						
<p><b>Mad River Sediment and Turbidity</b></p> <p>Effective Date: December 21, 2007</p> <p>BPA: <a href="#">USEPA Established</a></p> <p>Resolution Nos. <del>R1-2004-0087 and R1-2005-0013</del></p>	<p><b>WLAs</b></p> <p><b>Total Sediment Load Allocations by Subareas</b></p> <table border="1" data-bbox="334 422 1260 617"> <thead> <tr> <th>Source</th> <th>Upper Mad River</th> <th>Middle Mad River</th> <th>Lower Mad River</th> <th>Basinwide Annual Load</th> <th>Basinwide Daily Load</th> </tr> <tr> <td></td> <td>Tons/mi<sup>2</sup>/yr</td> <td>Tons/mi<sup>2</sup>/yr</td> <td>Tons/mi<sup>2</sup>/yr</td> <td>Tons/mi<sup>2</sup>/yr</td> <td>Tons/mi<sup>2</sup>/day</td> </tr> </thead> <tbody> <tr> <td><b>Management - Roads</b></td> <td>28</td> <td>279</td> <td>57</td> <td>174</td> <td>0.5</td> </tr> </tbody> </table> <p><b>Suspended Sediment Load Allocation by Subareas</b></p> <table border="1" data-bbox="334 680 1260 875"> <thead> <tr> <th>Source</th> <th>Upper Mad River</th> <th>Middle Mad River</th> <th>Lower Mad River</th> <th>Basinwide Annual Load</th> <th>Basinwide Daily Load</th> </tr> <tr> <td></td> <td>Tons/mi<sup>2</sup>/yr</td> <td>Tons/mi<sup>2</sup>/yr</td> <td>Tons/mi<sup>2</sup>/yr</td> <td>Tons/mi<sup>2</sup>/yr</td> <td>Tons/mi<sup>2</sup>/day</td> </tr> </thead> <tbody> <tr> <td><b>Management - Roads</b></td> <td>23</td> <td>251</td> <td>54</td> <td>158</td> <td>0.4</td> </tr> </tbody> </table> <p><b>Other</b> Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region.</p>	Source	Upper Mad River	Middle Mad River	Lower Mad River	Basinwide Annual Load	Basinwide Daily Load		Tons/mi <sup>2</sup> /yr	Tons/mi <sup>2</sup> /yr	Tons/mi <sup>2</sup> /yr	Tons/mi <sup>2</sup> /yr	Tons/mi <sup>2</sup> /day	<b>Management - Roads</b>	28	279	57	174	0.5	Source	Upper Mad River	Middle Mad River	Lower Mad River	Basinwide Annual Load	Basinwide Daily Load		Tons/mi <sup>2</sup> /yr	Tons/mi <sup>2</sup> /yr	Tons/mi <sup>2</sup> /yr	Tons/mi <sup>2</sup> /yr	Tons/mi <sup>2</sup> /day	<b>Management - Roads</b>	23	251	54	158	0.4	<p><del>None Specified</del> <a href="#">December 21, 2007</a></p> <p><del>None Specified</del> <a href="#">December 21, 2007</a></p> <p><del>Annual Report</del> <a href="#">December 20, 2003</a></p>
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<p><b>Mattole River Sediment</b></p> <p>Effective Date: <del>November 29, 2004</del> <a href="#">December 30, 2003</a></p> <p>BPA:</p> <p>Resolution Nos. <del>R1-2004-0087 and R1-2005-0013</del></p>	<p><b>WLA</b> The WLA is set at zero <del>net increase</del>.</p> <p><b>Other</b> <b>Sediment Load Allocation:</b> Road-related mass wasting: 520 tons/mi<sup>2</sup>/yr. Road stream crossing failures: 3 tons/mi<sup>2</sup>/yr. Road-related gullyng: 10 tons/mi<sup>2</sup>/yr. Road-related surface erosion: 27 tons/mi<sup>2</sup>/yr.</p> <p>Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region</p>	<p><del>None Specified</del> <a href="#">December 20, 2003</a></p> <p><a href="#">December 20, 2003</a></p> <p>Annual Report</p>																																				
<p><b>Navarro River Sediment and Temperature</b></p> <p>Effective Date: <del>November 29, 2004</del> <a href="#">December 27, 2000</a></p> <p>BPA: <a href="#">USEPA Established</a></p> <p>Resolution Nos. <del>R1-2004-0087 and R1-2005-0013</del></p>	<p><b>WLA</b> <b>Temperature:</b> The WLA is set at zero <del>net increase</del>. <b>Sediment:</b> WLA is set at zero.</p> <p><b>Other</b> Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region</p>	<p><del>None specified</del> <a href="#">December 27, 2000</a></p> <p>Annual Report</p>																																				
<p><b>Noyo River Sediment</b></p>	<p><b>WLA</b> <del>None specified</del> <a href="#">The WLA is set at zero</a></p>	<p><del>None Specified</del> <a href="#">December 16, 1999</a></p>																																				

REVISED – August 18, 2011

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
<p>Effective Date: <del>November 29, 2004</del> <u>December 16, 1999</u></p> <p>BPA: <u>USEPA</u> <u>Established</u></p> <p>Resolution Nos. <del>R1-2004-0087 and R1-2005-0013</del></p>	<p><b>Other</b> <u>Sediment Load Allocation: Road-related load allocation: 68 tons/mi<sup>2</sup>/yr.</u></p> <p>Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region</p>	<p><u>December 16, 1999</u></p> <p>Annual Report</p>
<p><b>Redwood Creek Sediment</b></p> <p>Effective Date: <del>November 29, 2004</del> <u>December 30, 1998</u></p> <p>BPA: <u>USEPA</u> <u>Established</u></p> <p>Resolution No. <del>R1-2004-0087 and R1-2005-0013</del></p>	<p><b>WLA</b> <del>None specified</del><u>The WLA is set at zero</u></p> <p><b>Other</b> <u>Sediment Load Allocation: Roads, landings, and skid trail erosion: 110 tons/mi<sup>2</sup>/yr.</u> <u>Road-related tributary landslides: 70 tons/mi<sup>2</sup>/yr.</u></p> <p>Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region</p> <p>Promote and facilitate cooperative public-private implementation and monitoring efforts.</p> <p>Clarify focus on potential erosion sites as well as exiting sites.</p> <p>Comprehensive monitoring plan.</p>	<p><del>None Specified</del> <u>December 1998</u></p> <p>Annual Report</p> <p>None Specified</p> <p>None Specified</p> <p>None Specified</p>
<p><b>Ten Mile River Sediment</b></p> <p>Effective Date: <del>November 29, 2004</del> <u>December 2000</u></p> <p>BPA: <u>USEPA</u> <u>Established</u></p> <p>Resolution Nos. <del>R1-2004-0087 and R1-2005-0013</del></p>	<p><b>WLAs</b> <del>None Specified</del> <u>The WLA is set at zero.</u></p> <p><b>Other</b> <u>Sediment Load Allocation: Road landsliding: 9 tons/mi<sup>2</sup>/yr. Road surface erosion: 33 tons/mi<sup>2</sup>/yr.</u></p> <p>Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region.</p>	<p><del>None Specified</del> <u>December 2000</u></p> <p><u>December 2000</u></p> <p>Annual Report</p>
<p><b>Trinity River, Lower and Middle and Upper HAS Sediment</b></p> <p>Effective Date: <del>November 29, 2004</del> <u>December 20, 2001</u></p> <p>BPA: <u>USEPA</u> <u>Established</u></p> <p>Resolution No. <del>R1-2004-0087 and</del></p>	<p><b>WLA</b> <del>None Specified</del> <u>Total Management WLAs are listed by subwatersheds within four assessment areas in Tables 5-2, 5-3, 5-4, and 5-5 of the Trinity River Total Maximum Daily Load for Sediment (USEPA, 2001).</u></p> <p><b>Other</b> Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region</p>	<p><del>None Specified</del> <u>December 20, 2001</u></p> <p>Annual Report</p>

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
<p><del>R1-2005-0013</del></p> <p><b>Trinity River, South Fork HA</b> <i>Sediment</i></p> <p>Effective Date: <del>November 29, 2004</del> <u>December 1998</u></p> <p>BPA: Amendment to Include Introductory Language on TMDLs</p> <p>Resolution Nos. <del>R1-2004-0087 and R1-2005-0013.</del></p>	<p><b>WLA</b> <del>None Specified</del></p> <p><u>The WLA is set at zero.</u></p> <p><b>Other</b> <u>Sediment Load Allocation: Road-related mass wasting: 16 tons/mi<sup>2</sup>/yr. Road surface erosion: 11 tons/mi<sup>2</sup>/yr. Road washouts, gullies, and small slides: 6 tons/mi<sup>2</sup>/yr.</u></p> <p>Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region</p>	<p><del>None Specified</del> <u>December 30, 1998</u></p> <p><u>December 30, 1998</u></p> <p>Annual Report</p>
<p><b>Van Duzen River and Yager Creek</b> <i>Sediment</i></p> <p>Effective Date: <del>November 29, 2004</del> <u>December 16, 1999</u></p> <p>BPA: Amendment to Include Introductory Language on TMDLs</p> <p>Resolution Nos. <del>R1-2004-0087 and R1-2005-0013.</del></p>	<p><b>WLA</b> <del>None Specified</del></p> <p><u>The WLA is set at zero.</u></p> <p><b>Other</b> <u>Sediment Load Allocation: Upper Basin Road LA: 7 yds<sup>3</sup>/mi<sup>2</sup>/yr. Middle Basin Road LA: 22 yds<sup>3</sup>/mi<sup>2</sup>/yr. Lower Basin Road LA: 20 yds<sup>3</sup>/mi<sup>2</sup>/yr.</u></p> <p>Sediment inventory, prioritization, scheduling, implementation, monitoring, and adaptation steps as described in the Region Specific Requirements (Attachment V) for the North Coast Region</p>	<p><del>None Specified</del> <u>December 16, 1999</u></p> <p><u>December 16, 1999</u></p> <p>Annual Report</p>

REVISED – August 18, 2011  
Attachment IVb – EPA Established TMDLs

R4- Los Angeles Regional Water Board

<u>TMDL</u>	<u>WLAs/Deliverables/Action Required</u>	<u>Compliance Date Due Date</u>																								
<p><u>San Gabriel River Metals</u></p> <p>Effective Date: March 26, 2007</p> <p>BPA: USEPA Established</p>	<p><u>WLAs</u> Grouped dry-weather and wet-weather WLAs apply to the MS4 and the Department permits. Allocations for NPDES-regulated storm water discharges from multiple point sources to be expressed as a single categorical WLA when the data and information are insufficient to assign each source or outfall individual WLAs.</p> <p><u>Wet-weather WLAs</u> Wet-weather allocations are assigned to all upstream reaches and tributaries of San Gabriel River Reach 2 and Coyote Creek because they potentially drain to these impaired reaches during wet weather.</p> <p><u>Wet-weather WLA for Lead in San Gabriel River Reach 2</u></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="width: 33%; text-align: center;"><u>Percent Area</u></th> <th style="width: 33%; text-align: center;"><u>Lead Allocations</u></th> <th style="width: 34%; text-align: center;"><u>Mass-based Values</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">49%</td> <td style="text-align: center;">49% * 166 ug/l * Daily Storm Volume</td> <td style="text-align: center;">51.8 kg/d</td> </tr> </tbody> </table> <p>Notes: (1) Concentration-based allocations apply to non-stormwater NPDES discharges (2) Stormwater allocations are expressed as a percent of load duration curve. Mass-based values presented in table are based on a flow of 260 cfs (daily storm volume = <math>6.4 \times 10^8</math> liters). (3) In San Gabriel River Reach 2, wet-weather TMDLs apply when the maximum daily flow in the river is equal to or greater than 260 cfs as measured at USGS station 11085000, located at the bottom of Reach 3 just above the Whittier Narrows Dam.</p> <p><u>Wet-weather WLAs for Copper, Lead, and Zinc in Coyote Creek</u></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="width: 25%; text-align: center;"><u>Percent area</u></th> <th style="width: 25%; text-align: center;"><u>Copper</u></th> <th style="width: 25%; text-align: center;"><u>Lead</u></th> <th style="width: 25%; text-align: center;"><u>Zinc</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">91.5%</td> <td style="text-align: center;">9.41 kg/d</td> <td style="text-align: center;">36.9 kg/d</td> <td style="text-align: center;">55.0 kg/d</td> </tr> </tbody> </table> <p>Notes: (1) Concentration-based allocations apply to non-stormwater NPDES discharges (2) Stormwater allocations are expressed as a percent of load duration curve. Mass-based values presented in table are based on a flow of 156 cfs (daily storm volume = <math>3.8 \times 10^8</math> liters). (3) In Coyote Creek, wet-weather TMDLs apply when the maximum daily flow in the creek is equal to or greater than 156 cfs as measured at LACDPW flow gauge station F354-R, located at the bottom of the creek, just above the Long Beach WRP.</p> <p style="text-align: center;">±</p> <p><u>Dry-weather WLAs</u> Dry-weather allocations are assigned to sources that discharge directly to the estuary and to upstream sources that discharge indirectly to the estuary via San Gabriel River Reach 1 and Coyote Creek. The dry-weather storm water allocation is shared by the MS4 permittees and the Department.</p> <p><u>Dry-weather Copper Waste Load Allocation (total recoverable metals)</u></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="width: 50%; text-align: center;"><u>Point Sources</u></th> <th style="width: 50%; text-align: center;"><u>San Gabriel River Estuary</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">MS4s, including the Department</td> <td style="text-align: center;">3.7 ug/l</td> </tr> </tbody> </table> <p><u>Dry-weather Copper Waste Load Allocations (total recoverable metals)</u></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%; text-align: center;"><u>Point Sources</u></th> <th style="width: 33%; text-align: center;"><u>San Gabriel River Reach 1</u></th> <th style="width: 34%; text-align: center;"><u>Coyote Creek</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">MS4s, including the Department</td> <td style="text-align: center;">18 ug/l</td> <td style="text-align: center;">0.941 kg/d</td> </tr> </tbody> </table>	<u>Percent Area</u>	<u>Lead Allocations</u>	<u>Mass-based Values</u>	49%	49% * 166 ug/l * Daily Storm Volume	51.8 kg/d	<u>Percent area</u>	<u>Copper</u>	<u>Lead</u>	<u>Zinc</u>	91.5%	9.41 kg/d	36.9 kg/d	55.0 kg/d	<u>Point Sources</u>	<u>San Gabriel River Estuary</u>	MS4s, including the Department	3.7 ug/l	<u>Point Sources</u>	<u>San Gabriel River Reach 1</u>	<u>Coyote Creek</u>	MS4s, including the Department	18 ug/l	0.941 kg/d	<p style="text-align: center;"><u>None Specified</u></p> <p style="text-align: center;"><u>None Specified</u></p> <p style="text-align: center;"><u>None Specified</u></p> <p style="text-align: center;"><u>None Specified</u></p>
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<b>TMDL</b>	<b>WLAs/Deliverables/Action Required</b>	<b>Compliance Date Due Date</b>				
	<p><u>Notes:</u>                      (1) The median non-WRP Coyote Creek flow is equal to 19 cfs, measured at LACDPW Station F354-R. A mass-based loading capacity of 0.943 kg/d was calculated by multiplying the target of 20 ug/l by the median non-WRP flow. The dry-weather stormwater allocation of 0.941 kg/d was assigned after accounting for potential loadings from direct atmospheric deposition.</p> <p><b>Dry-weather Selenium Waste Load Allocation (total recoverable metals)</b></p> <table border="1" data-bbox="331 415 1162 525"> <tr> <td><b>Point Sources</b></td> <td><b>San Jose Creek Reach 1 and Reach 2</b></td> </tr> <tr> <td><b>MS4s, including the Department</b></td> <td>5.0 ug/l</td> </tr> </table> <p><b>Other</b></p> <p><u>Dry-weather TMDL Effectiveness Monitoring</u>                      The storm water NPDES permittees, including the Department, will be found to be effectively meeting the dry-weather waste load allocations if the in-stream pollutant concentration or load at the first downstream TMDL effectiveness monitoring location is equal to or less than the corresponding concentration- or load-based waste load allocation. Alternatively, effectiveness of the TMDL may be assessed at the storm drain outlet based on the numeric target for the receiving water. For storm drains that discharge to other storm drains, effectiveness will be based on the waste load allocation for the ultimate receiving water for that storm drain system. The final dry-weather monitoring stations shall be located in San Jose Creek Reach 1 and the Estuary. At a minimum the sampling frequency should be sufficient to generate enough samples to evaluate status of the waterbody relative to the State Board listing policy.</p> <p><u>Wet-weather TMDL Effectiveness Monitoring</u>                      The storm water NPDES permittees, including the Department, will be found to be effectively meeting wet-weather waste load allocations if the load at the downstream monitoring location is equal to or less than the loading capacity identified in the TMDL. For practical purposes, this is when the EMC for a flow-weighted composite is less than or equal to the numeric target. Responsible agencies shall sample at least 4 wet-weather events where flow meets wet-weather conditions (260 cfs in San Gabriel River Reach 2 and 156 cfs in Coyote Creek) in a given storm season (November to March). Final wet-weather TMDL effectiveness monitoring stations may be located at the existing LACDPW mass emission sites in San Gabriel Reach 2 and Coyote Creek or at other locations approved by the Regional Board Executive Officer.</p>	<b>Point Sources</b>	<b>San Jose Creek Reach 1 and Reach 2</b>	<b>MS4s, including the Department</b>	5.0 ug/l	<p>None Specified</p> <p>None Specified</p>
<b>Point Sources</b>	<b>San Jose Creek Reach 1 and Reach 2</b>					
<b>MS4s, including the Department</b>	5.0 ug/l					
<p><b>Santa Clara River Reach 3 Chloride</b></p> <p>Effective Date: June 18, 2003</p> <p>BPA: USEPA Established</p>	<p><b>WLAs</b></p> <p>Chloride Waste Load Allocation is applicable to discharges directly to Reach 3, discharges to tributaries to Reach 3, and to discharges from Reach.</p> <p><b>Chloride WLA</b></p> <table border="1" data-bbox="331 1497 1263 1577"> <tr> <td><b>Point Source</b></td> <td><b>WLAs (mg/L)</b></td> </tr> <tr> <td><b>Department</b></td> <td>80</td> </tr> </table>	<b>Point Source</b>	<b>WLAs (mg/L)</b>	<b>Department</b>	80	<p>None Specified</p>
<b>Point Source</b>	<b>WLAs (mg/L)</b>					
<b>Department</b>	80					
<p><b>Malibu Creek Nutrients</b></p> <p>Effective Date: March 21, 2003</p> <p>BPA: USEPA Established</p>	<p><b>WLAs</b></p> <p>The WLAs apply to all discharges of runoff from developed areas, including the Department highways and facilities, to listed segments and to upstream, hydrologically connected segments within the Malibu Creek watershed. This means that WLAs apply both to discharges to segments for which TMDLs are established, as well as to discharges to segments that are tributary to the segments for which TMDLs are established.</p>	<p>None Specified</p>				

<b>TMDL</b>	<b>WLAs/Deliverables/Action Required</b>	<b>Compliance Date Due Date</b>																
	<p><b><u>Winter concentration-based nitrogen allocation</u></b>  <u>8 mg/l (Nitrate-Nitrogen + Nitrite-Nitrogen)*</u>  <u>*Applicable from November 16-April 14</u></p> <p>EPA was unable to specifically distinguish the amounts of pollutant loads from allocation categories associated with areas regulated by stormwater permits. Therefore, allocations for these source categories are grouped.</p> <p><b><u>Summer nitrogen and phosphorus allocations for runoff from developed areas (lb/day)</u></b>  <u>Total Nitrogen – 3.0</u>  <u>Total Phosphorus – 0.3</u></p> <p><u>*Notes:</u>  <u>(1) Applicable from April 15-November 15</u>  <u>(2) Based on long-term (1998-2001) median summer flow value at the Malibu Creek gauging station (below Cold Creek, LACPWD site #F130-R) during the summer season of 5.2 cfs multiplied by the concentration-based numeric targets of 1.0 mg/l total nitrogen and 0.1 mg/l total phosphorus.</u></p> <p><b><u>Other</u></b>  <u>Monitoring of pollutant sources is needed to ensure that required reductions are being achieved and if necessary, to refine the allocations presented in these TMDLs.</u></p>	<p align="center"><u>None Specified</u></p> <p align="center"><u>None Specified</u></p> <p align="center"><u>None Specified</u></p>																
<p><b><u>Los Cerritos Channel</u></b>  <u>Metals</u></p> <p><u>Effective Date:</u>  <u>March 17, 2010</u></p> <p><u>BPA: USEPA</u>  <u>Established</u></p>	<p><b><u>WLAs</u></b></p> <p><u>NPDES-regulated MS4 discharges from multiple point sources are allowed to be expressed as a single categorical WLA when data and information are insufficient to assign each source or outfall an individual allocation.</u></p> <p><b><u>Dry-weather mass-based WLA for Copper (total recoverable metals)</u></b></p> <table border="1" data-bbox="329 997 1112 1073"> <thead> <tr> <th><u>Pollutant</u></th> <th><u>The Department*</u></th> </tr> </thead> <tbody> <tr> <td><u>Copper</u></td> <td><u>1.0 grams/day</u></td> </tr> </tbody> </table> <p><u>*Based on 140 acres of land area. The area of the Department' right-of-way that drains to the portion of Los Cerritos Channel subject to the TMDLs is approximately 140 acres (approximately 0.79% of the Watershed). This percentage does not represent all of the Watershed area that the Department is responsible for under its stormwater permit; park and ride facilities and maintenance yards are not included in the estimate.</u></p> <p><b><u>Wet-weather Waste Load Allocations (total recoverable metals)*</u></b></p> <table border="1" data-bbox="329 1249 1198 1438"> <thead> <tr> <th><u>Metal</u></th> <th><u>The Department (g/day)</u></th> <th><u>The Department (g/day)**</u></th> </tr> </thead> <tbody> <tr> <td><u>Copper</u></td> <td><u>0.070 * daily storm volume (L) * 10<sup>-6</sup></u></td> <td><u>6.8</u></td> </tr> <tr> <td><u>Lead</u></td> <td><u>0.397 * daily storm volume (L) * 10<sup>-6</sup></u></td> <td><u>38.9</u></td> </tr> <tr> <td><u>Zinc</u></td> <td><u>0.680 * daily storm volume (L) * 10<sup>-6</sup></u></td> <td><u>66.7</u></td> </tr> </tbody> </table> <p><u>*Notes:</u>  <u>(1) The wet-weather waste load allocations apply to any day when the maximum daily flow measured at a location within the Los Cerritos Channel above the tidal prism (e.g. Stearns Street Monitoring Station) is equal to or greater than 23 cfs, which is the estimated 90<sup>th</sup> percentile daily flow.</u>  <u>(2) **Based on daily flow of 40 cfs (daily storm volume = 9.8x10 liters) and 140 acres of land area within the Watershed.</u></p> <p><b><u>Other</u></b>  <u>Responsible agencies shall sample at least 4 wet weather-events where flow meets wet-weather conditions (&gt;23 cfs in Los Cerritos Channel above the tidal prism) in a given storm season.</u></p> <p><u>Typically, monitoring options to assess whether the stormwater NPDES permittees are effectively meeting their waste load allocations include: 1) if the in-stream pollutant concentration or load at the first downstream effectiveness monitoring location is equal to or less than the corresponding concentration- or load-based waste load allocation or; 2) if sampling at the storm drain outlet shows that the numeric target for the receiving water is being met.</u></p>	<u>Pollutant</u>	<u>The Department*</u>	<u>Copper</u>	<u>1.0 grams/day</u>	<u>Metal</u>	<u>The Department (g/day)</u>	<u>The Department (g/day)**</u>	<u>Copper</u>	<u>0.070 * daily storm volume (L) * 10<sup>-6</sup></u>	<u>6.8</u>	<u>Lead</u>	<u>0.397 * daily storm volume (L) * 10<sup>-6</sup></u>	<u>38.9</u>	<u>Zinc</u>	<u>0.680 * daily storm volume (L) * 10<sup>-6</sup></u>	<u>66.7</u>	<p align="center"><u>None Specified</u></p> <p align="center"><u>None Specified</u></p> <p align="center"><u>None Specified</u></p>
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<b>TMDL</b>	<b>WLAs/Deliverables/Action Required</b>					<b>Compliance Date Due Date</b>
BPA: USEPA Established Resolution No.	<b>DDT - including Dicofol (g/yr)</b>	<b>Chlordane (g/yr)</b>	<b>Dieldrin (g/yr)</b>	<b>PCBs (g/yr)</b>	<b>Toxaphene (g/yr)</b>	June 14, 2002
	8.7	6.3	5.2	42.3	0.2	
	<b>Upper &amp; Lower Newport Bay Allocations</b>					
	<b>DDT - including Dicofol (g/yr)</b>	<b>Chlordane (g/yr)</b>	<b>Dieldrin (g/yr)</b>	<b>PCBs (g/yr)</b>		June 14, 2002
<b>Upper Newport Bay</b>	2.8	1.6	-	8.6		
<b>Lower Newport Bay</b>	0	0	0	4.10		